

c v n CURRÍCULUM VITAE NORMALIZADO



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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Engineer in Telecommunications in 1996 from the University of Vigo, Doctor in Telecommunications Engineering in 2000 from the Polytechnic University of Madrid and the Doctorate in Complex Systems in 2005 from the Carlos III University of Madrid. From 2006-2016 he worked in the Department of Signal Theory and Communications at the Rey Juan Carlos University (URJC) as Full Professor. Since 2021 June he is the Director of Scientific Planning of URJC. He has been a University Professor since April 2016. He has published more than 125 articles in indexed journals, more than 150 communications to national and international conferences, directed 18 doctoral theses and participated in more than 50 projects and R&D contracts, being IP in more than 15 of them. In 2009, he received the I3 Prize for the MICINN competition for his research career and the URJC Social Council Award for 2014 Research Excellence in Engineering and Architecture. Coordinator of the Biomedical Engineering Group at the URJC, and was in charge of the launch of the University Master's Degree in Information Technology and Communications in Biomedical Engineering at the URJC. He collaborates with the Hospital Virgen de la Arrixaca of Murcia, Montepíncipe of Madrid, Gregorio Marañón or Clínico San Carlos of Madrid. Since 2015 he has been the Director in the Science area of Persei Vivarium. He was awarded a PROMETEO concession from the Secr. National Higher Education, Science, Technology and Innovation of Ecuador as Researcher of Excellence, which included the start-up responsibilities of a National Support Center for Biomedical Engineering in the Health Sector.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

- 3 Sexenios de investigación concedidos (1999-2004, 2005-2010 y 2011-2016) y 1 sexenio de transferencia (2013-2018).
- Número Total de Citas: 2227
- Tesis dirigidas: 16



- | | |
|--|---|
| <p>2 Employing entity: Universidad Rey Juan Carlos
Professional category: Titular de Universidad interino
Start-End date: 01/10/2006 - 24/03/2008

Type of contract: Temporary</p> | <p>Type of entity: University
Educational Management (Yes/No): No

Duration: 1 year - 5 months - 23 days</p> |
| <p>3 Employing entity: Universidad Carlos III de Madrid
Professional category: Titular de Universidad interino
Start-End date: 05/02/2004 - 30/09/2006

Type of contract: Temporary</p> | <p>Type of entity: University
Educational Management (Yes/No): No

Duration: 1 year - 5 months - 23 days</p> |



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Ingeniero de Telecomunicación

Degree awarding entity: Universidade de Vigo **Type of entity:** University

Date of qualification: 30/10/1996

Doctorates

Doctorate programme: Doctor Ingeniero de Telecomunicación

Degree awarding entity: Universidad Politécnica de Madrid **Type of entity:** University

Date of degree: 04/12/2000

European doctorate: No

Thesis title: Clasificación de Arritmias Cardíacas Mediante Máquinas de Vectores Soporte

Recognition of quality: No

Special doctorate award: No

Standardised degree: No

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		B1	B1	B1	B1

Teaching experience

General teaching experience

1 Name of the course: INTRODUCCION A LA INGENIERIA DE TELECOMUNICACION

Start date: 01/01/2007

End date: 31/12/2008

Type of hours/ ECTS credits: Hours

Entity: Universidad Rey Juan Carlos

Faculty, institute or centre: Universidad Rey Juan Carlos

2 Name of the course: RADIACION Y PROPAGACION

Start date: 01/01/2007

End date: 31/12/2008

Type of hours/ ECTS credits: Hours

Entity: Universidad Rey Juan Carlos



3 Name of the course: SEÑALES Y COMUNICACIONES
Start date: 01/01/2007 **End date:** 31/12/2008
Type of hours/ ECTS credits: Hours
Entity: Universidad Rey Juan Carlos
Faculty, institute or centre: Universidad Rey Juan Carlos

4 Name of the course: TRANSMISION DE DATOS
Start date: 01/01/2007 **End date:** 31/12/2008
Type of hours/ ECTS credits: Hours
Entity: Universidad Rey Juan Carlos

Experience supervising doctoral thesis and/or final year projects

1 Project title: Interpretable data science methods for Knowledge discovery from ovarian cancer data.
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: Luis Bote Curiel
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 07/2021

2 Project title: Interpretable machine learning for promotional sales forecasting.
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: Carlos Aguilar Palacios
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2021

3 Project title: Modelos de Valoración de empresas no cotizadas en bolsa.
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: G Vayas Ortega
Obtained qualification: Sobresaliente
Date of reading: 12/2020

4 Project title: Desarrollo de Algorítmia para Dispositivos de Monitorización Cardíaca de Nueva Generación
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: Francisco Melgarejo Meseguer
Obtained qualification: Sobresaliente Cum laude
Date of reading: 15/10/2019

5 Project title: Analysis, representation and visualization of emergencies attended by integrated security services
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: D Corral de Witt. Tutor: JL Rojo-ÁlvarezFacultad/Escuela: Escuela Internacional de Doctorado
Obtained qualification: Sobresaliente
Date of reading: 06/2019



- 6** **Project title:** Modeling energy consumption and demand response optimization in healthcare buildings
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: RX Gordillo OrqueraFacultad/Escuela: Escuela Internacional de Doctorado
Obtained qualification: Notable
Date of reading: 06/2019
- 7** **Project title:** Mejoramiento de la Producción de Flores Mediante la Implementación de una Red WSN
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Student: MJ ErazoFacultad/Escuela: Escuela Internacional de Doctorado
Obtained qualification: Sobresaliente
Date of reading: 02/2019
- 8** **Project title:** Eliminación de Ruido de Movimiento en Imágenes Cardíacas Obtenidas con Mapeo Óptico.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: S Díaz
Date of reading: 2016
European doctorate: No
Quality recognition: No
- 9** **Project title:** Machine Learning and Knowledge Management for Decision Support. Applications in Promotional Efficiency and Healthcare.
Type of project: Doctoral thesis
Co-director of thesis: Inmaculada Mora Jiménez
Entity: Universidad Rey Juan Carlos
Student: Cristina Soguero Ruiz
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 16/06/2015
European doctorate: Yes
Quality recognition: Yes
- 10** **Project title:** Real-Time Volcanic Monitoring Using Wireless Sensor Networks
Type of project: Doctoral thesis
Co-director of thesis: Danilo Benítez
Entity: Universidad Rey Juan Carlos
Student: Román Lara Cueva
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 15/06/2015
European doctorate: Yes
Quality recognition: Yes
- 11** **Project title:** Análisis de componentes independientes para la cancelación de actividad ventricular durante fabricación auricular en sistemas de navegación intracardiaca
Type of project: End of course project
Co-director of thesis: Margarita Sanromán Junquera
Entity: Universidad Rey Juan Carlos
Student: Aitor Barragán Garnacho
Obtained qualification: 8
Date of reading: 12/06/2015



European doctorate: No
Quality recognition: No

- 12** **Project title:** Análisis Promocional del Mercado de Gran Consumo en el Sector de Distribución Minorista.
Entity: Universidad Rey Juan Carlos
Student: C Blanco
Date of reading: 2015
European doctorate: No
Quality recognition: No
- 13** **Project title:** Sample Entropy y dRR Lorenz Plot en la detección de fibrilación auricular a partir de intervalos RR.
Co-director of thesis: Arcadio García Alberola
Entity: Universitat Politècnica de Catalunya
Student: V Alvarado
Date of reading: 2015
European doctorate: No
Quality recognition: Yes
- 14** **Project title:** Simulación acústica de recintos.
Entity: Universidad Rey Juan Carlos
Student: C Fonz
Date of reading: 2015
European doctorate: No
Quality recognition: No
- 15** **Project title:** Métodos de interpolación para la reconstrucción de mapas electroanatómicos en sistemas de navegación cardíaca
Type of project: End of course project
Co-director of thesis: Margarita Sanromán Junquera
Entity: Universidad Rey Juan Carlos
Student: Raquel Díaz Valencia
Obtained qualification: 10
Date of reading: 20/06/2014
European doctorate: No
Quality recognition: No
- 16** **Project title:** Robust Signal Processing in Cardiac Signals: Applications in Heart Rate Variability, Heart Rate Turbulence and Fibrillatory Arrhythmias
Type of project: Doctoral thesis
Entity: Universidad Rey Juan Carlos
Student: Óscar Barquero Pérez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 06/06/2014
European doctorate: Yes
Quality recognition: Yes
- 17** **Project title:** Signal Processing and Non-parametric Statistics for ECG Long-Term Monitoring: Application to Heart Rate Variability, Atrial Fibrillation and T-Wave Alternans
Type of project: Doctoral thesis
Co-director of thesis: Antonio José Caamaño Fernández
Entity: Universidad Rey Juan Carlos



Student: Rebeca Goya Esteban
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 06/06/2014
European doctorate: Yes
Quality recognition: Yes

- 18** **Project title:** Advanced Intracardiac Electrogram Analysis for Arrhythmia Ablation Support.
Type of project: Doctoral thesis
Co-director of thesis: Inmaculada Mora Jiménez
Entity: Universidad Rey Juan Carlos
Student: Margarita Sanromán Junquera
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 05/06/2014
European doctorate: Yes
Quality recognition: Yes
- 19** **Project title:** Medidas de Entropía e Irreversibilidad Temporal en Señales Cardíacas durante Monitorización Prolongada.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: I Muñoz Fernández
Date of reading: 2014
European doctorate: No
Quality recognition: No
- 20** **Project title:** Diagnóstico de Cefaleas mediante Iridocolorimetría.
Co-director of thesis: Pareja, J. A.
Entity: Universidad Rey Juan Carlos
Student: Mohammed El Yaagoubi
Date of reading: 2014
European doctorate: No
Quality recognition: No
- 21** **Project title:** EHR Web Prototype for HRT Domain Using a Server-based Ontology System and Archetypes
Co-director of thesis: Cristina Soguero Ruiz
Entity: Universidad Rey Juan Carlos
Student: A Sánchez Caro
Date of reading: 2014
European doctorate: No
Quality recognition: Yes
- 22** **Project title:** Métodos Núcleo Para la Estimación de Velocidad en Imágenes de Ecocardiografía Doppler en Modo M.
Entity: Universidad Rey Juan Carlos
Student: N De Pablo Ramírez
Date of reading: 2014
European doctorate: No
Quality recognition: No



- 23** **Project title:** Sistema para la Generación y Optimización de Calendarios de Exámenes y Apoyo a la Ordenación Docente en la ETSIT.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: M García
Date of reading: 2013
European doctorate: No
Quality recognition: No
- 24** **Project title:** Visualizador y Clasificador de Episodios de Arritmias Ventriculares en Pacientes con Seguimiento Remoto de Dispositivo Cardíaco Implantado.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: I Navas
Date of reading: 2013
European doctorate: No
Quality recognition: No
- 25** **Project title:** Weaning Failure Prediction from Heterogeneous Time Series using Normalized Compression Distance and Multidimensional Scaling.
Co-director of thesis: Inmaculada Mora Jiménez
Entity: Universidad Rey Juan Carlos
Student: José María Lillo Castellano
Obtained qualification: 10, Matrícula de Honor
Date of reading: 27/06/2012
European doctorate: No
Quality recognition: No
- 26** **Project title:** Análisis No Lineal del Ciclo Cardíaco Fetal para Predicción de Hipoxia Perinatal.
Co-director of thesis: Carlos Martín Caballero
Entity: Universidad Rey Juan Carlos
Student: Beatriz García Vizueté
Date of reading: 2012
European doctorate: No
Quality recognition: Yes
- 27** **Project title:** eLab: A Web-based Platform to Perform HRV and HRT Analysis and Store Cardiac Signals.
Entity: Universidad Rey Juan Carlos
Student: Teresa Fernández Quintanilla
Date of reading: 2012
European doctorate: No
Quality recognition: Yes
- 28** **Project title:** Diagnóstico de Modelo y Selección de Variables para Métodos de Aprendizaje Estadístico Aplicados a Efectividad Promocional.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: Cristina Soguero Ruiz
Date of reading: 2011
European doctorate: No
Quality recognition: No



- 29** **Project title:** Reconstrucción de Cavidades Cardíacas en Estudios de Navegación Electrofisiológica.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: JR Pérez
Date of reading: 2011
European doctorate: No
Quality recognition: No
- 30** **Project title:** Segmentación del Endocardio en Imágenes de Tomografía Axial Computarizada.
Type of project: End of course project
Entity: Universidad Rey Juan Carlos
Student: A García
Date of reading: 2011
European doctorate: No
Quality recognition: No
- 31** **Project title:** Localización de arritmias mediante digitalización automática y procesado de electrogramas intracardíacos
Type of project: End of course project
Co-director of thesis: Inmaculada Mora Jiménez
Entity: Universidad Rey Juan Carlos
Student: Margarita Sanromán Junquera
Obtained qualification: Matrícula de Honor
Date of reading: 09/09/2009
European doctorate: No
Quality recognition: No
- 32** **Project title:** Detección Anticipada y Mecanismos en Prueba del Síncope Mediante Tratamiento Digital de Señal.
Type of project: Doctoral thesis
Co-director of thesis: Arcadio García Alberola
Entity: UNIVERSIDAD MIGUEL HERNÁNDEZ. CAMPUS ELCHE.
Student: Javier Gimeno Blanes
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 15/07/2009
European doctorate: No
Quality recognition: No
- 33** **Project title:** Algoritmos de Aprendizaje Estadístico Aplicados a la Radiolocalización en Interiores
Type of project: Doctoral thesis
Co-director of thesis: Francisco Javier Ramos López
Entity: Universidad Rey Juan Carlos
Student: Carlos Miguel Figuera Pozuelo
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 10/06/2009
European doctorate: No
Quality recognition: No
- 34** **Project title:** Sincronización de Redes de Telecomunicaciones Mediante Técnicas de Aprendizaje Estadístico
Type of project: Doctoral thesis
Entity: UNIVERSIDAD CARLOS III DE MADRID



Student: Juan Ramón Feijoo Martínez
Obtained qualification: SOBRESALIENTE
Date of reading: 28/10/2008
European doctorate: No
Quality recognition: No

35 **Project title:** Heart Rate Variability Characterization Using Entropy Measures
Co-director of thesis: JOAQUIM MARQUES DE SA
Student: Rebeca Goya Esteban
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 25/07/2008
European doctorate: No
Quality recognition: No

36 **Project title:** Heart Rate Variability: A Fractal Analysis
Co-director of thesis: JOAQUIM MARQUES DE SA
Student: Óscar Barquero Pérez
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 25/07/2008
European doctorate: No
Quality recognition: No

37 **Project title:** Estudio de los mecanismos de las arritmias cardiacas mediante modelado y procesado robusto digital de señal
Type of project: Doctoral thesis
Co-director of thesis: Arcadio García Alberola
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: Felipe Alonso Atienza
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 27/05/2008
European doctorate: No
Quality recognition: No

38 **Project title:** Análisis espectral de electrogramas almacenados en desfibrilador automático implantable durante fibrilación ventricular
Type of project: Doctoral thesis
Co-director of thesis: Arcadio García Alberola
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: Jesús Requena Carrión
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 26/05/2008
European doctorate: No
Quality recognition: No

39 **Project title:** Predicción del síncope vasovagal mediante el análisis de los resultados de la prueba de basculación.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID. (LEGANES)
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2008
European doctorate: No
Quality recognition: No



- 40** **Project title:** Nuevos Algoritmos Robustos para Deconvolución Dispersa.
Type of project: Doctoral thesis
Co-director of thesis: Manel Martínez Ramón
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: C Martinz
Obtained qualification: SOBRESALIENTE
Date of reading: 07/2007
European doctorate: No
Quality recognition: No
- 41** **Project title:** Estimación de la curva de respuesta promocional mediante máquinas de vectores soporte.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: JAVIER MOLINA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2007
European doctorate: No
Quality recognition: No
- 42** **Project title:** Medidas de la Duración del Potencial de Acción a Partir de Secuencias de Mapeo Óptico Cardíaco.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: ISABEL DEL CERRO
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2007
European doctorate: No
Quality recognition: No
- 43** **Project title:** Procesado Robusto de Imágenes Doppler Color Modo-M con Máquinas de Vectores Soporte
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: ELENA PARRA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2007
European doctorate: No
Quality recognition: No
- 44** **Project title:** Robustez algorítmica en variabilidad de frecuencia cardiaca.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: MONICA MUÑOZ MUÑOZ
Date of reading: 2007
European doctorate: No
Quality recognition: No
- 45** **Project title:** Alternancias de la onda T como marcador de muerte cardíaca súbita
Type of project: End of course project
Co-director of thesis: Ana Belén Rodríguez González
Entity: UNIVERSIDAD CARLOS III DE MADRID. (LEGANES)
Student: Silvia Martín Alonso



Obtained qualification: Matrícula de Honor (10)
Date of reading: 30/05/2006
European doctorate: No
Quality recognition: No

46 Project title: Modelado de las corrientes iónicas cardíacas para el estudio de enfermedades congénitas

Type of project: End of course project
Co-director of thesis: Felipe Alonso Atienza
Entity: UNIVERSIDAD CARLOS III DE MADRID. (LEGANES)
Student: Rubén Cordero Lorenzo
Obtained qualification: Matrícula de Honor
Date of reading: 03/03/2006
European doctorate: No
Quality recognition: No

47 Project title: Discriminación de arritmias cardíacas mediante programación evolutiva.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: JORGE PARRA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2006
European doctorate: No
Quality recognition: No

48 Project title: Estudio multiescala de señal electrocardiográfica en la enfermedad de Chagas.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: JOSE MARIA GARCIA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2006
European doctorate: No
Quality recognition: No

49 Project title: Incremento de la resolución temporal en ecocardiografía Doppler 2D.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: PATRICIA FRAILE
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2006
European doctorate: No
Quality recognition: No

50 Project title: Métodos de extracción y de análisis de la fibrilación auricular en electrocardiografía.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: CRISTINA REBOLLO
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2006
European doctorate: No
Quality recognition: No



- 51** **Project title:** Detección de complejos QRS en equipos de monitorización cardíaca
Type of project: End of course project
Co-director of thesis: Ana Belén Rodríguez González
Entity: UNIVERSIDAD CARLOS III DE MADRID. (LEGANES)
Student: María Herrero Torres
Obtained qualification: Matrícula de Honor (10)
Date of reading: 07/12/2005
European doctorate: No
Quality recognition: No
- 52** **Project title:** Caos y fractales en el análisis de la variabilidad de frecuencia cardíaca
Type of project: End of course project
Co-director of thesis: Ana Belén Rodríguez González
Entity: UNIVERSIDAD CARLOS III DE MADRID. (LEGANES)
Student: Óscar Barquero Pérez
Obtained qualification: Matrícula de Honor (10)
Date of reading: 19/01/2005
European doctorate: No
Quality recognition: No
- 53** **Project title:** Caos y fractales en el análisis de la variabilidad de frecuencia cardíaca.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: Óscar Barquero Pérez
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2005
European doctorate: No
Quality recognition: No
- 54** **Project title:** Certificados de calibración y estudio sobre partículas.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: JAVIER PEREZ
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2005
European doctorate: No
Quality recognition: No
- 55** **Project title:** Estudio de la variabilidad de frecuencia cardíaca mediante temporización cardíaca y máquina de vectores soporte.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: VIRGINIA SALGUERO
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2005
European doctorate: No
Quality recognition: No
- 56** **Project title:** Estudio mediante SVM, boosting y bootstrap de la relevancia de las regiones funcionales en la actividad cerebral.
Type of project: End of course project



Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: MIGUEL A RODRIGUEZ
Date of reading: 2005
European doctorate: No
Quality recognition: No

57 **Project title:** Máquinas de Vectores Soporte en Procesado y Análisis de Imágenes de Ecocardiografía Doppler Color en Modo M.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: VICTOR MANUEL JUAREZ
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2005
European doctorate: No
Quality recognition: No

58 **Project title:** Representación de la actividad eléctrica cardiaca registrada mediante mapeo óptico.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: TERESA QUINTANILLA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2005
European doctorate: No
Quality recognition: No

59 **Project title:** Técnicas de remuestreo bootstrap en la selección de la arquitectura de redes neuronales: aplicaciones para señales biomédicas.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: VERONICA GARCIA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2005
European doctorate: No
Quality recognition: No

60 **Project title:** Análisis de las turbulencias del ciclo cardíaco.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: MONICA MUÑOZ MUÑOZ
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2004
European doctorate: No
Quality recognition: No

61 **Project title:** Aplicación de Algoritmos de Aprendizaje SVM al Procesado Robusto de Señales Cardíacas.

Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: LUIS E IZAGUIRRE
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2004
European doctorate: No



Quality recognition: No

- 62** **Project title:** Estimación de la Impedancia de Entrada Aórtica Mediante Deconvolución Homomórfica.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: FRANCISCO JOSÉ VALLEJO
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2004
European doctorate: No
Quality recognition: No
- 63** **Project title:** Estudio de la influencia de la fuente de electrocardiograma en los algoritmos de discriminación de arritmias en desfibriladores implantables.
Type of project: End of course project
Entity: UNIVERSIDAD DE ALCALA
Student: ANDRES RIVERO
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2004
European doctorate: No
Quality recognition: No
- 64** **Project title:** Estudio del Campo Eléctrico Registrado en Catéteres Durante Trastornos de la Conducción Cardíaca.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: Felipe Alonso Atienza
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2004
European doctorate: No
Quality recognition: No
- 65** **Project title:** Análisis de los Mecanismos de Génesis de Fibrilación Auricular Mediante Análisis Digital de la Señal.
Type of project: End of course project
Entity: UNIVERSIDAD DE ALCALA
Student: SARA MARTINEZ
Date of reading: 2003
European doctorate: No
Quality recognition: No
- 66** **Project title:** Modelo de Señal en los Mecanismos de Génesis de la Fibrilación Ventricular.
Type of project: End of course project
Entity: UNIVERSIDAD CARLOS III DE MADRID
Student: Jesús Requena Carrión
Date of reading: 2003
European doctorate: No
Quality recognition: No
- 67** **Project title:** Análisis Comparativo de Medidas Espectrales de Potencia en la Señal de Variabilidad de Frecuencia Cardíaca
Type of project: End of course project
Entity: UNIVERSIDAD DE ALCALA



Student: RAUL MADERA
Obtained qualification: MATRICULA DE HONOR
Date of reading: 2002
European doctorate: No
Quality recognition: No

- 68** **Project title:** Medidas de Potencia Espectral en Series de Variabilidad de Frecuencia Cardiaca
Type of project: End of course project
Entity: UNIVERSIDAD DE ALCALA
Student: LUIS CRESPO
Date of reading: 2000
European doctorate: No
Quality recognition: No

Other activities/achievements not included above

Description of the activity: Participación en proyecto de innovación educativa / Denominación del proyecto: "Diseño e Implementación de un Sistemas de Comunicaciones Digitales Inalámbricas: Aprendizaje Multidisciplinar de las Telecomunicaciones a través de un Caso Práctico". Proyecto seleccionado en la II Convocatoria de Ayudas a Proyectos de Innovación Educativa de la URJC, curso 2006-2007.
Organising entity: Universidad Rey Juan Carlos
End date: 30/09/2007

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** SC-LEARNING-CM. Machine Learning sobre Single Cell Multi-ómico para Relacionar COVID-19, Envejecimiento y Cardiopatías: Mecanismos y Validación de Modelo Preclínico.
Entity where project took place: Universidad Rey Juan Carlos **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI...): Sergio Muñoz Romero; JL Rojo Alvarez
Start-End date: 01/01/2022 - 31/12/2022
Total amount: 3.967.995 €
- 2** **Name of the project:** BEYOND - Ciencia de Datos Fundamentada Desde y Para Aplicaciones en Salud y Turismo.
Entity where project took place: Universidad Rey Juan Carlos **Type of entity:** University
City of entity: MADRID, Community of Madrid, Spain
Name principal investigator (PI, Co-PI...): Inmaculada Mora
Start-End date: 01/07/2020 - 30/06/2022
Total amount: 115.313 €



- 3** **Name of the project:** meHEART RisBi - Risk Stratification and Biomarkers (PID2019-104356RB-C42)
Entity where project took place: Universidad Miguel Hernández de Elche **Type of entity:** University
City of entity: ALICANTE, Valencian Community, Spain
Name principal investigator (PI, Co-PI....): Javier Gimeno Blanes
Start-End date: 01/07/2020 - 30/06/2022
Total amount: 74.415 €
- 4** **Name of the project:** FINALE- Nuevos Métodos de Procesado Digital para su Aplicación en Modalidades Emergentes de Señales Cardíacas y su Integración Hospitalaria. Subproyecto RESHEART en URJC: Investigación Traslacional y Transferencia de un Nuevo Sistema de Electrofisiología Cardíaca No Invasiva de Alta Resolución.
Entity where project took place: Universidad Rey Juan Carlos **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Jose Luis Rojo Alvarez; Rebeca Goya Esteban
Nº of researchers: 6
Start-End date: 30/12/2016 - 29/12/2019
Total amount: 206.305 €
- 5** **Name of the project:** JOINT - Algoritmos de Máquinas de Vectores Soporte Especialistas en Ambientes Inteligentes.
Type of project: Research and development, including transfer **Geographical area:** Non EU International
Name principal investigator (PI, Co-PI....): Enrique Vinicio Carrera
Nº of researchers: 2
Funding entity or bodies:
Vicerrectorado de Investigación, Innovación y Transferencia Tecnológica, Universidad de las Fuerzas Armadas ESPE
Start-End date: 01/05/2015 - 01/04/2017 **Duration:** 1 year - 11 months
Total amount: 20.000 €
Dedication regime: Full time
- 6** **Name of the project:** VPREHAB - Desarrollo de un Demostrador Tecnológico en Pacientes con Daño Cerebral Adquirido.
Type of project: Research and development, including transfer **Geographical area:** Non EU International
Name principal investigator (PI, Co-PI....): Sergio Albiol
Nº of researchers: 2
Funding entity or bodies:
Vicerrectorado de Investigación, Innovación y Transferencia Tecnológica, Universidad de las Fuerzas Armadas ESPE
Start-End date: 01/01/2015 - 31/12/2016 **Duration:** 2 years
Total amount: 65.000 €
Dedication regime: Full time
- 7** **Name of the project:** Procesado No Lineal y Aprendizaje Estadístico con Núcleos Autocorrelación para Aplicaciones en Salud
Type of project: Research and development, including transfer **Geographical area:** National
Entity where project took place: Universidad Rey Juan Carlos **Type of entity:** University



City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez; Antonio José Caamaño Fernández

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Economía y Competitividad

Code according to the funding entity: TEC2013-48439-C4-1-R

Start-End date: 01/01/2014 - 31/12/2016

Duration: 3 years

Total amount: 115.313 €

Dedication regime: Full time

8 Name of the project: PRICAM - Programa Redes Eléctricas Inteligentes en la Comunidad de Madrid.

Type of project: Research and development,
including transfer

Geographical area: Regional

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 1

Funding entity or bodies:

Comunidad de Madrid. Programa I D.

Code according to the funding entity: P2013/ICE-2933

Start-End date: 01/10/2014 - 30/09/2016

Duration: 2 years

Total amount: 115.667 €

Dedication regime: Full time

9 Name of the project: Sistema de monitorización de señales vitales a domicilio no intrusivo: VITALMOB

Type of project: Research and development,
including transfer

Geographical area: National

Entity where project took place: Universidad Rey Juan Carlos

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Economía y Competitividad

Code according to the funding entity: IPT-2012-1126-300000

Start-End date: 17/07/2012 - 31/12/2015

Duration: 3 years - 5 months - 14 days

Total amount: 46.645 €

Dedication regime: Full time

10 Name of the project: Métodos de Aprendizaje Estadístico y Análisis de Complejidad Mediante Métodos Núcleo - Aplicaciones en Problemas de Redes de Sensores, Bioingeniería y Canales Radioeléctricos.

Type of project: Research and development,
including transfer

Geographical area: Non EU International

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 1

Funding entity or bodies:

Presidencia de la República del Ecuador; Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación.

Code according to the funding entity: Programa PROMETEO

Start-End date: 01/11/2012 - 31/10/2015

Duration: 3 years

Total amount: 60.000 €

Dedication regime: Full time



- 11 Name of the project:** Mejora de la Atención Sanitaria en Entornos Rurales mediante Aplicaciones de Telemedicina sobre Tecnologías Inalámbricas (MASERATTI)
Type of project: Research and development, including transfer
Geographical area: Non EU International
Name principal investigator (PI, Co-PI....): Francisco Javier Simó Reigadas
Nº of researchers: 8
Funding entity or bodies: CYTED (CIENCIA Y TECNOLOGÍA PARA EL DESARROLLO)
Code according to the funding entity: Red Temática CYTED
Start-End date: 01/01/2010 - 31/12/2013
Duration: 4 years
Total amount: 132.000 €
Dedication regime: Full time
- 12 Name of the project:** EXCALIVUR - Extracción de características y selección de variables en registros multivariados prolongados
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Inmaculada Mora Jiménez
Nº of researchers: 2
Funding entity or bodies: Ministerio de Ciencia e Innovación
Type of entity: Body, others
Code according to the funding entity: TEC2010-19263-TCM
Start-End date: 01/09/2010 - 01/09/2013
Duration: 3 years
Total amount: 120.200 €
Dedication regime: Full time
- 13 Name of the project:** ATICA - Red Temática Española para el avance y la transferencia de la Inteligencia Computacional Aplicada.
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Miquel Sánchez Marre
Nº of researchers: 2
Funding entity or bodies: Ministerio de Economía y Competitividad
Code according to the funding entity: TIN-2011-14083-E
Start-End date: 01/01/2012 - 31/12/2012
Duration: 1 year
Total amount: 30.000 €
Dedication regime: Full time
- 14 Name of the project:** Localización del origen de arritmias cardiacas mediante modelado y tecnologías de la información y comunicaciones (LOCMOTIC)
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 18
Funding entity or bodies: Ministerio de Industria, Turismo y Comercio
Code according to the funding entity: TSI-020100-2010-469
Start-End date: 01/01/2010 - 31/12/2012
Duration: 3 years
Participating entity/entities: Sorin Group S.L



Total amount: 35.448,84 €
Dedication regime: Full time

15 Name of the project: Procesado multicomponente espacial distribuido de registros electricos cardiacos con procesado de señal e imagen

Type of project: Research and development, including transfer
Geographical area: National

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 32

Funding entity or bodies:
MINISTERIO DE EDUCACION, CULTURA Y DEPORTE

Start-End date: 01/01/2010 - 31/12/2011
Duration: 2 years

Total amount: 30.000 €

Dedication regime: Full time

16 Name of the project: Guiado Automático De Vehículos De Transporte Público Mediante Percepción Multimodal Para Mejorar La Eficiencia (GUIADE)

Type of project: Research and development, including transfer
Geographical area: National

Name principal investigator (PI, Co-PI....): Juan José Vinagre Díaz

Nº of researchers: 23

Funding entity or bodies:
MINISTERIO DE FOMENTO

Start-End date: 01/10/2008 - 31/12/2011
Duration: 3 years - 3 months

Dedication regime: Full time

17 Name of the project: PIRAmiDE. Personalizable interactions with resources on AMI-Enables mobile dynamic enviroments

Type of project: Research and development, including transfer
Geographical area: National

Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López

Nº of researchers: 10

Funding entity or bodies:
Ministerio de Industria, Turismo y Comercio

Code according to the funding entity: TSI-020301-2008-2

Start-End date: 01/01/2008 - 31/12/2010
Duration: 3 years

Total amount: 221.600 €

Dedication regime: Full time

18 Name of the project: Algoritmia SVM especializada y aplicaciones a comunicaciones inalámbricas

Type of project: Research and development, including transfer
Geographical area: National

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 2

Funding entity or bodies:
Ministerio de Educación y Ciencia

Code according to the funding entity: 2007/00214/001

Start-End date: 01/10/2007 - 30/09/2010
Duration: 3 years

Total amount: 60.678,24 €

Dedication regime: Full time



- 19** **Name of the project:** Modelos de Aprendizaje e Inferencia Distribuida para Redes Ad-Hoc
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Jesus Cid Sueiro
Nº of researchers: 2
Start-End date: 01/12/2005 - 01/11/2008
Duration: 2 years - 11 months
- 20** **Name of the project:** LoRIS: Localización en Redes Inalámbricas para Aplicaciones Sociosanitarias
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Antonio José Caamaño Fernández
Nº of researchers: 4
Start-End date: 01/01/2006 - 31/12/2007
Duration: 2 years
- 21** **Name of the project:** Seguimiento de Múltiples Objetivos con Redes de Sensores (S-MORSE)
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Francisco-Javier González Serrano
Nº of researchers: 2
Start-End date: 01/01/2007 - 30/12/2007
Duration: 11 months - 29 days
- 22** **Name of the project:** Formulación y desarrollo de herramientas y aplicaciones de tecnologías de la información y comunicación para la gestión del pequeño distribuidor minorista
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): MIGUEL ANGEL GÓMEZ BORJA
Nº of researchers: 2
Start-End date: 01/06/2005 - 30/06/2007
Duration: 2 years - 1 month
- 23** **Name of the project:** Resolución de Colisiones en Redes Inalambricas a traves de Procesado Estadístico de Señal (RECIPES)
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Francisco-Javier González Serrano
Nº of researchers: 3
Start-End date: 01/01/2006 - 30/12/2006
Duration: 11 months - 29 days
Dedication regime: Full time
- 24** **Name of the project:** Estimación de los Gradientes de Presión Intracavitarios Mediante Procesado Digital de Imágenes de Ecocardiografía Doppler
Type of project: Research and development, including transfer
Geographical area: National
Name principal investigator (PI, Co-PI....): Javier Bermejo
Nº of researchers: 2
Funding entity or bodies: Instituto de Salud Carlos III
Start-End date: 01/12/2003 - 30/12/2006
Duration: 3 years - 29 days



- 25** **Name of the project:** Modelo matemático operativo de las corrientes de despolarización cardíacas registradas en electrogramas intracavitarios: validación con cartografía de activación 3D
Type of project: Research and development, including transfer
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 2
Start-End date: 01/01/2005 - 31/12/2005 **Duration:** 1 year
- 26** **Name of the project:** E-TELICAN: Evidencias en el Uso de la telemedicina Aplicada a Insuficiencia Cardíaca y Neumología
Type of project: Research and development, including transfer **Geographical area:** National
Name principal investigator (PI, Co-PI....): Andrés Martínez Fernández
Nº of researchers: 2
Funding entity or bodies:
Instituto de Salud Carlos III
Start-End date: 01/01/2004 - 18/01/2005 **Duration:** 1 year - 17 days
Total amount: 20.270 €
- 27** **Name of the project:** Modelos Avanzados de Aprendizaje Máquina Para Aplicaciones de Decisión Automática
Type of project: Research and development, including transfer **Geographical area:** Regional
Nº of researchers: 2
Start-End date: 01/10/2003 - 30/09/2004 **Duration:** 1 year
- 28** **Name of the project:** Tratamiento de Señal para Detección de Puntos Calientes, subproyecto 3 del proyecto "Desarrollo de un Sistema de Detección de Infrarrojos para Investigación Optrónica: Detectores y Tratamiento de Señal".
Type of project: Research and development, including transfer **Geographical area:** National
Nº of researchers: 2
Start-End date: 01/01/2001 - 30/12/2003 **Duration:** 2 years - 11 months - 29 days
- 29** **Name of the project:** Estudio observacional prospectivo para el desarrollo de algoritmos de inteligencia artificial capaces de predecir la evolución de pacientes con cáncer de ovario avanzado integrando sus características clínicas, patológicas y moleculares.
Name principal investigator (PI, Co-PI....): Dra. A. Barquín-García; Dr. JL Rojo Álvarez
Funding entity or bodies:
Grupo Español de Investigación en Cáncer de Ovario
Start date: 11/2022 **Duration:** 1 year
Participating entity/entities: Becas GEICO de investigación traslacional "Andrés Poveda" 2022
Total amount: 25 €
- 30** **Name of the project:** HESTIA 2022-REGING-92049. Herramientas para el análisis y la interpretabilidad de espacios embebidos en sistemas biométricos
Name principal investigator (PI, Co-PI....): Dr. FM. Melgarejo Meseguer
Funding entity or bodies:
Convocatoria de Proyectos de Impulso a la Investigación para Jóvenes Doctores de la Universidad Rey Juan Carlos 2022
Start date: 11/2022 **Duration:** 1 year



Participating entity/entities: Vicerrectorado de Investigación. Programa Propio De Fomento y Desarrollo de la Investigación.URJC

Total amount: 3,87 €

- 31 Name of the project:** MI-OBESIDAD 2022-REGING-95982. Modelos multiescala personalizados del corazón para la realización de ensayos clínicos in-silico: Efecto de la obesidad en las arritmias cardíacas
Name principal investigator (PI, Co-PI....): Dra. L Martínez Mateu
Funding entity or bodies:
Convocatoria de Proyectos de Impulso a la Investigación para Jóvenes Doctores de la Universidad Rey Juan Carlos 2022
Start date: 11/2022 **Duration:** 1 year
Participating entity/entities: Vicerrectorado de Investigación. Programa Propio De Fomento y Desarrollo de la Investigación.URJC
Total amount: 5,45 €
- 32 Name of the project:** INVESTIGO.Proyecto predoctoral
Name principal investigator (PI, Co-PI....): Dr. JL Rojo Álvarez
Start date: 10/2022 **Duration:** 1 year
Participating entity/entities: Comunidad de Madrid
Total amount: 34,11 €
- 33 Name of the project:** Secuenciación ARN de células individuales en la Miocardiopatíaarritmogénica. De la expresión a la identificación de dianas terapéuticas. PI22/01042
Name principal investigator (PI, Co-PI....): Dr. JR Gimeno-Blanes
Funding entity or bodies:
Proyecto I+D Acción Estratégica en Salud 2021-2023. Ministerio de Ciencia e Innovación
Start date: 07/2022 **Duration:** 2 years
Participating entity/entities: Fundacion Para la Formacion e Investigacion Sanitarias de la Region de Murcia (FFIS). Instituto Murciano de Investigacion Biosanitaria (IMIB)
Total amount: 162,14 €
- 34 Name of the project:** Estudio de la heterogeneidad en la miocardiopatía hipertrófica:transcriptoma e inteligencia artificial. SEC/FEC-INV-BAS 21/021
Name principal investigator (PI, Co-PI....): Dra M Sabater Molina
Funding entity or bodies:
Proyectos de Investigación Básica o Traslacional en Salud Cardiovascular de la Sociedad Española de Cardiología y Fundación Española del Corazón
Start date: 10/2021 **Duration:** 1 year
Participating entity/entities: Sociedad Española de Cardiología.
Total amount: 15 €
- 35 Name of the project:** MAPAS. Máquinas de aprendizaje para problemas y aplicaciones singulares. Learning machines for singular problems and applications. TIN2017-90567-REDT
Name principal investigator (PI, Co-PI....): Dr. Anibal Figueiras
Funding entity or bodies:
Innovación y Universidades. Redes de Excelencia2017
Ministerio de Ciencia
Start date: 01/07/2018 **Duration:** 1 year - 11 months - 29 days
Participating entity/entities: Universidad Carlos III de Madrid; Universidad Politécnica de Cartagena; Universitat Politècnica de Catalunya; Universidad Rey Juan Carlos; Universidad Rovira i Virgili; Universidad



de Alcalá; Universidad de Córdoba; Universidad de Santiago de Compostela; Universidad de las Palmas de Gran Canaria

Total amount: 10 €

36 Name of the project: KERMES. Avances en métodos núcleo para datos estructurados. Advances in core methods for structured data. TEC2016-81900-REDT

Name principal investigator (PI, Co-PI....): Dr. G Camps-Valls

Funding entity or bodies:

Industria y Competitividad. Redes de Excelencia 2016

Ministerio de Economía

Start date: 01/07/2017

Duration: 1 year - 11 months - 29 days

Participating entity/entities: Universidad Carlos III de Madrid; Universidad Politécnica de Madrid; Universidad Rey Juan Carlos; Universidad de Granada; Universidad de Cantabria; Universitat de València

Total amount: 20 €

37 Name of the project: De hipertensión arterial a diabetes. Identificación de factores de riesgo mediante aprendizaje automático con datos heterogéneos. DTSC17/00158

Name principal investigator (PI, Co-PI....): Dr. C Soguero-Ruiz

Funding entity or bodies:

MINECO. ISCIII. Proyectos de Investigación en Salud 2017.

Start date: 2017

Duration: 3 years

Participating entity/entities: Hospital Universitario de Fuenlabrada; Hospital universitario de Móstoles; Hospital universitario del Sureste; Universidad Rey Juan Carlos

Total amount: 28,05 €

38 Name of the project: Redes Inalámbricas Aisladas Heterogéneas para Zonas Aisladas de Países en Desarrollo

Type of project: Research and development, including transfer

Geographical area: National

Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López

Nº of researchers: 2

Start date: 01/10/2005

R&D non-competitive contracts, agreements or projects with public or private entities

1 Name of the project: AWARE: TECNOAWARE: Tecnología ehealth disruptiva basada en algoritmos y tecnología propia machine learning para generar conocimiento relevante sobre grandes patologías

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI....): Dr. JL Rojo Álvarez

Participating entity/entities: Universidad Rey Juan Carlos

Funding entity or bodies:

Persei Vivarium S.L.

Start date: 10/2022

Total amount: 18,95 €

2 Name of the project: Apoyo a Tareas de Desarrollo Tecnológico y Formación para el proyecto UBIASIST

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI....): Dr. JL Rojo Álvarez

Participating entity/entities: CETEM y URJC

**Funding entity or bodies:**

Centro Tecnológico del Mueble y la madera de Murcia (CETEM)

Start date: 07/2022

Total amount: 12 €

3 Name of the project: Control de prosodia sobre voces sintéticas en español mediante aprendizaje

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI...): Dr. S Muñoz Romero

Participating entity/entities: Universidad Rey Juan Carlos

Funding entity or bodies:

Monoceros Labs S.L.

Start date: 12/2021

Duration: 2 years

4 Name of the project: Apoyo a Tareas de Desarrollo Tecnológico y Formación para el proyecto ELIOT

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI...): Dr. JL Rojo Álvarez

Participating entity/entities: CETEM y URJC

Funding entity or bodies:

Centro Tecnológico del Mueble y la madera de Murcia (CETEM)

Start date: 07/2021

Duration: 10 months

Total amount: 15,73 €

5 Name of the project: Reconocimiento de patrones multimodales para caracterización y predicción de la evolución clínica de pacientes afectados por SARS-COV-2

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI...): Dra I Mora y A Torrado

Participating entity/entities: Universidad Rey Juan Carlos (URJC).

Funding entity or bodies:

Programa propio

Universidad Rey Juan Carlos

Type of entity: University

Start date: 01/01/2021

Duration: 11 months - 30 days

6 Name of the project: Visualización de Biopotenciales desde y para Equipos Cardiológicos en la Práctica Clínica - VIRTUALIFE. IDI-20190624

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI...): Dr. JL Rojo-Álvarez

Participating entity/entities: Centro Tecnológico del Mueble y la madera de Murcia (CETEM); Hospital Clínico Universitario Virgen de la Arrixaca (Murcia); Spika; Universidad Rey Juan Carlos (URJC).

Funding entity or bodies:

Centro para el Desarrollo Tecnológico Industrial (CDTI). MINECO. Proyectos de I+D de Transferencia Tecnológica "Cervera"

Start date: 26/07/2019

Duration: 1 year - 11 months - 4 days

Total amount: 140 €

7 Name of the project: Marketing Campaigns Optimization Exploring Data Science Techniques

Degree of contribution: Contrato I+D Art 83

Name principal investigator (PI, Co-PI...): C Soguero-Ruiz; I Mora-Jiménez; JL Rojo-Álvarez

Participating entity/entities: Universidad Rey Juan Carlos

**Funding entity or bodies:**

BBVA DATA AND ANALYTICS S.L.

Start date: 01/01/2018**Duration:** 2 years - 5 months**Total amount:** 28,05 €

- 8 Name of the project:** AtrialMaps– Prototipo de Sistema de Almacenamiento en la Nube, Visualización y Procesado de Señales Intracardíacas en Fibrilación Auricular. Exp.05/287246.9/17

Degree of contribution: Contrato I+D Art 83**Name principal investigator (PI, Co-PI...):** JL Rojo-Álvarez; S Muñoz-Romero**Participating entity/entities:** URJC. Concesión directa de ayudas cofinanciadas FEDER para incentivar el uso de servicios de innovación en las pequeñas empresas (Programa Cheque Innovación 2017); dentro del Programa Operativo de la Comunidad de Madrid para el período 2014-2020**Funding entity or bodies:**

Persei Vivarium S.L.

Start date: 01/11/2017**Duration:** 1 year - 8 months**Total amount:** 16,76 €

- 9 Name of the project:** DeepECG – Prototipo de Sistema para Prueba de Algoritmos de Procesamiento de ECG de 12 Derivaciones y Visualización Consistente Electrocardiográfica. Exp. 05/286966.9/17

Degree of contribution: Contrato I+D Art 83**Name principal investigator (PI, Co-PI...):** JL Rojo-Álvarez; R Goya-Esteban; S Muñoz-Romero**Participating entity/entities:** URJC. Concesión directa de ayudas cofinanciadas FEDER para incentivar el uso de servicios de innovación en las pequeñas empresas (Programa Cheque Innovación 2017); dentro del Programa Operativo de la Comunidad de Madrid para el período 2014-2020**Funding entity or bodies:**

Persei Vivarium S.L.

Start date: 01/11/2017**Duration:** 1 year - 8 months**Total amount:** 16,8 €

- 10 Name of the project:** Aware0– Diseño de un Prototipo de Sistema Inteligente para Apoyo a la Investigación sobre la Práctica Clínica

Degree of contribution: Contrato I+D Art 83**Name principal investigator (PI, Co-PI...):** S Muñoz-Romero; JL Rojo-Álvarez**Participating entity/entities:** Universidad Rey Juan Carlos**Funding entity or bodies:**

Persei Consulting S.L.

Start date: 01/10/2017**Duration:** 1 year - 9 months**Total amount:** 17,21 €

- 11 Name of the project:** Big Data Analytics y Estructura Organizacional en Cruz Roja Española

Degree of contribution: Contrato I+D Art 83**Name principal investigator (PI, Co-PI...):** JL Rojo-Álvarez; C Soguero-Ruiz**Participating entity/entities:** Universidad Rey Juan Carlos**Funding entity or bodies:**

Cruz Roja Española

Start date: 01/01/2017**Duration:** 1 year - 3 months**Total amount:** 5,44 €



- 12** **Name of the project:** Aplicación de tecnologías Big Data para la toma de decisiones en el sector hotelero
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): María del Pilar Talón Ballestero
Nº of researchers: 4
Funding entity or bodies:
IBEROSTAR MANAGEMENT S.A.U.
Start date: 01/12/2015 **Duration:** 1 year
Total amount: 0 €
- 13** **Name of the project:** InsideHeart - Nueva Tecnología de Imagen Eléctrica Intracardiaca y No Invasiva para Ayuda en el Diagnóstico de Arritmias en Plataformas eHealth. Exp. 45/308209.9/16
Degree of contribution: Contrato I+D Art 83
Name principal investigator (PI, Co-PI....): JL Rojo-Álvarez
Participating entity/entities: URJC. Concesión directa de ayudas cofinanciadas FEDER para incentivar el uso de servicios de innovación en las pequeñas empresas (Programa Cheque Innovación 2016); dentro del Programa Operativo de la Comunidad de Madrid para el período 2014-2020
Funding entity or bodies:
Persei Vivarium SL
Start date: 01/11/2015 **Duration:** 3 months - 28 days
Total amount: 16,98 €
- 14** **Name of the project:** Diseño de Algoritmos de Soft Computing para Problemas de Predicción de Energía Eólica, Fotovoltaica y Mareomotriz por Olas.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Antonio José Caamaño Fernández
Nº of researchers: 2
Participating entity/entities: UNIVERSIDAD DE ALCALA
Funding entity or bodies:
Universidad Rey Juan Carlos
Start date: 30/09/2015 **Duration:** 1 year - 3 months - 1 day
Total amount: 20.000 €
- 15** **Name of the project:** BigSeeds2 - Nuevos Análisis de Señal y Grandes Datos Biomédicos en la Nube
Degree of contribution: Contrato I+D Art 83
Name principal investigator (PI, Co-PI....): JL Rojo-Álvarez
Participating entity/entities: Universidad Rey Juan Carlos
Funding entity or bodies:
Persei Consulting SL
Start date: 2014 **Duration:** 4 years - 6 months
Total amount: 3,92 €
- 16** **Name of the project:** Monitorización de las arritmias cardiacas en sistemas de información telemédicos para dispositivos de soporte vital.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 22

**Funding entity or bodies:**

FUNDACIÓN PARA LA FORMACIÓN E INVESTIGACIÓN SANITARIAS DE LA REGIÓN DE MURCIA.

Start date: 01/06/2012**Duration:** 10 months**Total amount:** 19.667 €

- 17 Name of the project:** Seminario sobre La Telecomunicación al Servicio de los colectivos vulnerables: TIC, Autonomía Personal y Vida Independiente

Type of project: Research and development, including transfer**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Francisco Javier Ramos López**Nº of researchers:** 6**Funding entity or bodies:**

Fundación Vodafone España

Start date: 25/01/2012**Duration:** 2 months**Total amount:** 20.000 €

- 18 Name of the project:** CITYPROG: investigación y desarrollo de algoritmos de detección de incidencias y planificación de rutas en entorno urbano

Type of project: Research and development, including transfer**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Ana Belén Rodríguez González**Nº of researchers:** 19**Funding entity or bodies:**

Sociedad Ibérica de Construcciones Eléctricas(SICE)

Start date: 21/07/2011**Duration:** 2 years - 4 months**Total amount:** 296.780 €

- 19 Name of the project:** Predicción de hospitalización y monitorización con dispositivos implantables mediante procesado de señal y métodos de aprendizaje (PRHISMA)

Type of project: Research and development, including transfer**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** José Luis Rojo Alvarez**Nº of researchers:** 27**Funding entity or bodies:**

Fundación Médica para la Investigación y el Desarr

Start date: 28/03/2011**Duration:** 7 months**Total amount:** 18.000 €

- 20 Name of the project:** Seminario sobre Telecomunicaciones: una oportunidad importante para el mantenimiento de la Sociedad del Bienestar

Type of project: Research and development, including transfer**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** Francisco Javier Ramos López**Nº of researchers:** 10**Funding entity or bodies:**

Fundación Vodafone España

Start date: 15/03/2011**Duration:** 2 months**Total amount:** 20.000 €



- 21 Name of the project:** Investigación, diseño y desarrollo de un sistema de localización para la seguridad y prevención de accidentes para trabajadores de obras ferroviarias
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Juan José Vinagre Díaz
Nº of researchers: 18
Funding entity or bodies:
Idom Internacional, S.A. Ingeniería
Code according to the funding entity: F326
Start date: 01/02/2011 **Duration:** 1 year
Total amount: 49.580 €
- 22 Name of the project:** Diseño y desarrollo de un sistema personal de seguridad y prevención de accidentes para trabajadores de obras ferroviarias
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Juan José Vinagre Díaz
Nº of researchers: 18
Funding entity or bodies:
COMSA
Start date: 26/07/2010 **Duration:** 1 year - 6 months
Total amount: 47.990 €
- 23 Name of the project:** Diseño de redes de comunicaciones con técnicas de optimización estadística (directo)
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 26
Funding entity or bodies:
Red Eléctrica de España, SAU
Start date: 19/07/2010 **Duration:** 1 year - 6 months
Total amount: 35.000 €
- 24 Name of the project:** Seminario sobre ¿eSalud y eAccesibilidad: Claves para la vida independiente de los colectivos vulnerables¿
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López
Nº of researchers: 12
Funding entity or bodies:
Fundación Vodafone España
Start date: 23/03/2010 **Duration:** 2 months
Total amount: 18.000 €
- 25 Name of the project:** Catedra de investigación en emprendimiento social en TIC para el desarrollo
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Andrés Martínez Fernández



Nº of researchers: 18

Funding entity or bodies:

Fundación Ashoka

Start date: 05/02/2010

Duration: 3 years

Total amount: 105.000 €

26 Name of the project: Prolongued ECG monitoring and risk stratification (PREMARIS)

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Inmaculada Mora Jiménez

Nº of researchers: 22

Funding entity or bodies:

Fundación para la formación e investigación sanitarias de la región de Murcia (FFIS)

Start date: 01/10/2009

Duration: 4 months

Total amount: 24.439 €

27 Name of the project: Valoración Predictiva de las Variables Eléctricas en Muerte Súbita Cardíaca Mediante TICs y Análisis de Señal (VPREDICT+)

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 1

Participating entity/entities: Fundación Hospital Clínico Universitario de Valencia; Fundación Hospital de Madrid; Fundación Hospital universitario La Paz; Fundación para la Formación e Investigación de la Región de Murcia; Fundación para la Investigación Biosanitaria de Andalucía Oriental; Persei Consulting S.L; Sorin Group España S.L; Universidad Rey Juan Carlos

Funding entity or bodies:

Ministerio de Industria, Turismo y Comercio

Code according to the funding entity: TSI-020100-2009-332

Start date: 01/09/2009

Duration: 2 years - 10 months

Total amount: 281.029 €

28 Name of the project: Seminario sobre Comunicaciones Vehiculares a favor de la Autonomía Personal y la Vida Independiente de los Colectivos Vulnerables

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López

Nº of researchers: 13

Funding entity or bodies:

Fundación Vodafone España

Start date: 12/03/2009

Duration: 2 months

Total amount: 10.000 €

29 Name of the project: Informe científico-técnico sobre localización de origen de arritmias mediante análisis de señales almacenadas en desfibrilador implantable.

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez

Nº of researchers: 20

Funding entity or bodies:



SATEC

Start date: 13/02/2009

Duration: 2 months - 29 days

Total amount: 3.000 €

30 Name of the project: Localización precisa multiplanta y en tres dimensiones en entornos de interior mediante la utilización de redes y tecnologías inalámbricas tipo ZigBee

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Juan José Vinagre Díaz

Nº of researchers: 19

Funding entity or bodies:

SATEC

Start date: 30/10/2008

Duration: 8 months

Total amount: 40.000 €

31 Name of the project: Curso de formación: nuevas tecnologías y seguridad de automoción.

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Julio Ramiro Bargeño

Nº of researchers: 19

Funding entity or bodies:

FITSA Fund. Inst.Tecnol. para la Seg. del Autom.

Start date: 20/10/2008

Duration: 3 days

Total amount: 10.000 €

32 Name of the project: Implantación y puesta en marcha de una Aplicación que permita el registro de las incidencias que se producen en la calle 30, su seguimiento, representación cartográfica, el calculo de un conjunto de i

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Eduardo Morgado Reyes

Nº of researchers: 19

Funding entity or bodies:

Empresa de Mantenimiento y Explotación M30 S.A.

Start date: 20/06/2008

Duration: 6 months - 30 days

Total amount: 16.000 €

33 Name of the project: Seminario "Sistemas de navegación por Satélite.El programa Europeo"

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Inmaculada Mora Jiménez

Nº of researchers: 19

Funding entity or bodies:

Aeropuertos Españoles y Navegación Aérea (AENA)

Start date: 16/04/2008

Duration: 2 months - 18 days

Total amount: 4.700 €



- 34** **Name of the project:** Desarrollo de un prototipo de pruebas para localización en interiores mediante tecnología ZigBee.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López
Nº of researchers: 7
Participating entity/entities: Universidad Rey Juan Carlos
Funding entity or bodies:
SATEC
Start date: 18/10/2007 **Duration:** 3 months
- 35** **Name of the project:** Análisis de Señal para Monitorización de Holter Prolongada en Estratificación de Riesgo Cardíaco.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 2
Start date: 01/10/2007 **Duration:** 1 year - 6 months
- 36** **Name of the project:** Análisis del Alcance de Electrodo Intracavitarios en Desfibriladores Automáticos Implantables.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Arcadio García Alberola
Nº of researchers: 3
Participating entity/entities: HOSPITAL UNIVERSITARIO VIRGEN DE LA ARRIXACA; Universidad Rey Juan Carlos
Start date: 01/10/2007 **Duration:** 1 year - 29 days
- 37** **Name of the project:** Consultoría para realizar los trabajos relacionados con el sector de Infraestructuras de Telecomunicaciones del Plan de Ordenación del Territorio de Castilla la Mancha.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Andrés Martínez Fernández
Nº of researchers: 7
Participating entity/entities: Universidad Rey Juan Carlos
Funding entity or bodies:
UTE COMPAÑÍA PLANIFICADORA S.L.-ALFREDO CARDA
Start date: 30/07/2007 **Duration:** 2 years
Total amount: 7.080 €
- 38** **Name of the project:** Curso de Radio Madrid Barajas.
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Juan José Vinagre Díaz
Nº of researchers: 14
Participating entity/entities: Depart. de Teoría de la Señal y Comunicaciones. URJC.
Funding entity or bodies:
AVANZIT TECNOLOGIA, S.L.
Start date: 01/06/2007 **Duration:** 1 month



Total amount: 7.200 €

- 39** **Name of the project:** Definición y especificaciones técnicas de plataforma de medida automatizada de la calidad del Espectro en el marco del proyecto MESEO
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López
Nº of researchers: 6
Participating entity/entities: Universidad Rey Juan Carlos
Start date: 24/04/2007 **Duration:** 1 year
- 40** **Name of the project:** Adaptación de una plataforma software para la distribución de contenidos multimedia via Wifi para el proyecto X-CONT
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Javier Ramos López
Nº of researchers: 6
Participating entity/entities: Universidad Rey Juan Carlos
Funding entity or bodies:
IBER BAND EXCHANGE
Start date: 24/02/2007 **Duration:** 1 year - 1 month - 30 days
- 41** **Name of the project:** Análisis de la señal de Fibrilación Ventricular (ANFIVE)
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 5
Participating entity/entities: GUIDANT S.A.; Hospital Universitario Virgen de la Arrixaca de Murcia; UNIVERSIDAD CARLOS III DE MADRID. (LEGANES); Universidad Rey Juan Carlos
Start date: 09/11/2006 **Duration:** 1 year
- 42** **Name of the project:** Enlace Hispano-Americano de Salud (EHAS)
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Andrés Martínez Fernández; Jesus Cid Sueiro
Nº of researchers: 3
Participating entity/entities: FUNDACIÓN ENLACE HISPANOAMERICANO DE SALUD; UNIVERSIDAD CARLOS III DE MADRID. (LEGANES); Universidad Politécnica de Madrid
Start date: 01/10/2003 **Duration:** 3 years - 29 days
- 43** **Name of the project:** Estudio de los Mecanismos de Génesis y Perpetuación de la Fibrilación Ventricular Mediante Modelado y Procesado Digital de Señal
Type of project: Research and development, including transfer
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José Luis Rojo Alvarez
Nº of researchers: 5
Start date: 01/01/2002 **Duration:** 4 years
- 44** **Name of the project:** BigSeeds - Análisis de Señal y Grandes Datos en la Nube
Degree of contribution: Contrato I+D Art 83
Name principal investigator (PI, Co-PI....): JL Rojo-Álvarez; I Mora-Jiménez



Participating entity/entities: Universidad Rey Juan Carlos

Funding entity or bodies:

Persei Consulting SL

Start date: 2001

Duration: 2015 years - 1 month - 28 days

Total amount: 10,85 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** Sistema y método para la reconstrucción y visualización de la activación eléctrica cardíaca.

Description of qualities: Sistema y método para la reconstrucción y visualización de la activación eléctrica cardíaca.

Inventors/authors/obtainers: José Luis Rojo Alvarez; Felipe Alonso Atienza; Antonio José Caamaño Fernández; Francisco Javier Ramos López; MIGUEL ANGEL MOSCOSO CASTRO; JUAN DIEGO ALVAREZ ROMAN; Arcadio García Alberola; Juan José Sanchez Muñoz

Entity holder of rights: Universidad Rey Juan Carlos

Reference/registry code: ES2334309 **Nº of application:** P200801074

Date of register: 08/04/2008

Conferral date: 19/11/2012

Spanish patent: No **EU patent:** No

International non-EU patent: No
- 2 Title registered industrial property:** System for reconstructing and viewing cardiac electrical activation, obtains co-ordinates of location of array of intracavitary catheters and processes signal from intracavitary catheters, based on support vector machine algorithm

Inventors/authors/obtainers: UNIVERSIDAD REY JUAN CARLOS; GARCIA ALBEROLA A; SANCHEZ MUNOZ J J; ROJO ALVAREZ J L; ALONSO ATIENZA F; REQUENA CARRLON1 JESUS; WILBY M R; CAAMANO FERNANDEZ A J; RAMOS LOPEZ F J; MOSCOSO CASTRO M A; ALVAREZ ROMAN J D; RAMOS LOPEZ J; REQUENA CARRION J; REQUENA CARRLONI J; LVAREZ ROMAN J D; ALONSO A F; ALVAREZ R J D; CAAMANO F A J; GARCIA A A; MOSCOSO C M A; RAMOS L F J; REQUENA C J; ROJO A J L; SANCHEZ M J J

Entity holder of rights: UNIV MADRID CARLOS III; FFIS FUNDACION PARA FORMACION & INVESTIG; UNIV REY JUAN CARLOS; FFIS FUNDACION PARA FORMACION&INVESTIG; FFIS FUNDACION PARA FORMACION E INVESTIG

Nº of patent: WO2009127755-A1; ES2334309-A1; EP2266460-A1; US2011224526-A1; ES2334309-B2; US8868171-B2; EP2266460-



Scientific and technological activities

Scientific production

H index: 27

Date of application: 24/05/2023

Fuente de Índice H: WOS

Publications, scientific and technical documents

- 1** Cybersecurity Alert Prioritization in a Critical High Power Grid with Latent Space. IEEE Access. 11, pp. 23754 - 23770. 2023.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Autocorrelation Metrics to Estimate Soil Moisture Persistence From Satellite Time Series: Application to Semiarid Regions. 2022.
Type of production: Scientific paper
- 3** Citizen broadband radio service review. 2022.
Type of production: Scientific paper
- 4** Vadillo-Valderrama; Alba and Goya-Esteban; Rebeca and Caulier-Cisterna; Raúl P. and García-Alberola; Arcadi García -Alberola; JL Rojo-Álvarez. Differential Beat Accuracy for ECG Family Classification Using Machine Learning. IEEE Access. 10, pp. 129362 - 129381. 2022.
Type of production: Scientific paper
- 5** Generalization and Regularization for Inverse Cardiac Estimators. 2022.
Type of production: Scientific paper
- 6** Bote L; S Ruiz-Llorente; S Muñoz; M Yagüe-Fernández; A Barquin; I Garcia-Donas; JL Rojo-Álvarez. Multivariate Feature Selection and Autoencoder Embeddings of Ovarian Cancer Clinical and Genetic Data. Expert Systems with Applications(ESW). 206, 2022.
Type of production: Scientific paper
- 7** On the Black-Box Challenge for Fraud Detection Using Machine Learning (II): Nonlinear Analysis through Interpretable Autoencoders. 2022.
Type of production: Scientific paper
- 8** Chaquet-Ulldemolins J; Gimeno-Blanes J; Moral-Rubio S; S Muñoz-Romero; JL Rojo-Álvarez. On the Black-box Challenge for Fraud Detection using Machine Learning (I): Linear Models and Informative Feature Selection. Applied Sciences. 12(7), pp. 3328. 2022.
Type of production: Scientific paper
- 9** Luis Bote Curiel; Sergio Ruiz Llorente; Sergio Muñoz Romero; Monica Yagüe Fernández; Aranzazu Barquín; Jesús García Donas; JL Rojo Alvarez. Text analytics and mixed feature extraction in ovarian cancer clinical and genetic data. IEEE Access. 9, pp. 58034 - 58051. IEEE, 21/10/2021.



Type of production: Scientific paper
Corresponding author: Yes

Format: Journal

- 10** Gonzalez-Serrano, Lydia; Talon-Ballester, Pilar; Munoz-Romero, Sergio; Soguero-Ruiz, Cristina; Rojo-Alvarez, Jose Luis. A Big Data Approach to Customer Relationship Management Strategy in Hospitality Using Multiple Correspondence Domain Description. APPLIED SCIENCES-BASEL. 11 - 1, MDPI, 01/01/2021. ISSN 2076-3417

Type of production: Scientific paper
Source of citations: WOS

Format: Journal
Citations: 0

- 11** A Resampling Univariate Analysis Approach to Ovarian Cancer From Clinical and Genetic Data. 2021.
Type of production: Scientific paper

- 12** Automatic ladybird beetle detection using deep-learning models. 2021.
Type of production: Scientific paper

- 13** Causal Quantification of Cannibalization During Promotional Sales in Grocery Retail. 2021.
Type of production: Scientific paper

- 14** Data Science Analysis and Profile Representation Applied to Secondary Prevention of Acute Coronary Syndrome. 2021.
Type of production: Scientific paper

- 15** Electrocardiographic Imaging for Atrial Fibrillation: A Perspective From Computer Models and Animal Experiments to Clinical Value. 2021.
Type of production: Scientific paper

- 16** Optimal Axes for Data Value Estimation in Star Coordinates and Radial Axes Plots. 2021.
Type of production: Scientific paper

- 17** Sentiment Analysis of Political Tweets from the 2019 Spanish Elections. 2021.
Type of production: Scientific paper

- 18** Transitions in an integrated model of renal replacement therapy in a regional health system.2021.
Type of production: Scientific paper

- 19** Venegas, Pablo; Perez, Noel; Zapata, Sonia; Daniel Mosquera, Juan; Augot, Denis; Luis Rojo-Alvarez, Jose; Benitez, Diego. An approach to automatic classification of Culicoides species by learning the wing morphology. PLOS ONE. 15 - 11, PUBLIC LIBRARY SCIENCE, 04/11/2020. ISSN 1932-6203

Type of production: Scientific paper
Source of citations: WOS

Format: Journal
Citations: 0

- 20** Vayas-Ortega, Germania; Soguero-Ruiz, Cristina; Rojo-Alvarez, Jose-Luis; Gimeno-Blanes, Francisco-Javier. On the Differential Analysis of Enterprise Valuation Methods as a Guideline for Unlisted Companies Assessment (I): Empowering Discounted Cash Flow Valuation. APPLIED SCIENCES-BASEL. 10 - 17, MDPI, 01/09/2020. ISSN 2076-3417

Type of production: Scientific paper
Source of citations: WOS

Format: Journal
Citations: 0



- 21** Naranjo-Orellana, Jose; Francisco Ruso-Alvarez, Jose; Luis Rojo-Alvarez, Jose. Comparison of Omegawave Device and an Ambulatory ECG for RR Interval Measurement at rest. INTERNATIONAL JOURNAL OF SPORTS MEDICINE. GEORG THIEME VERLAG KG, 25/08/2020. ISSN 0172-4622, ISSN 1439-3964
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 2
- 22** El-Yaagoubi, Mohammed; Mora-Jimenez, Inmaculada; Jabrane, Younes; Munoz-Romero, Sergio; Luis Rojo-Alvarez, Jose; Antonio Pareja-Grande, Juan. Quantitative Cluster Headache Analysis for Neurological Diagnosis Support Using Statistical Classification. INFORMATION. 11 - 8, MDPI, 01/08/2020. ISSN 2078-2489
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 1
- 23** Fabricio Perez-Gutierrez, Milton; Jose Sanchez-Munoz, Juan; Erazo-Rodas, Mayra; Guerrero-Curieses, Alicia; Everss, Estrella; Quesada-Dorador, Aurelio; Ruiz-Granell, Ricardo; Ibanez-Criado, Alicia; Bellver-Navarro, Alex; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadi. Spectral Analysis and Mutual Information Estimation of Left and Right Intracardiac Electrograms during Ventricular Fibrillation. SENSORS. 20 - 15, MDPI, 01/08/2020. ISSN 1424-8220
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 0
- 24** Caulier-Cisterna, Raul; Blanco-Velasco, Manuel; Goya-Esteban, Rebeca; Munoz-Romero, Sergio; Sanroman-Junquera, Margarita; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. Spatial-Temporal Signals and Clinical Indices in Electrocardiographic Imaging (II): Electrogram Clustering and T-Wave Alternans. SENSORS. 20 - 11, MDPI, 01/06/2020. ISSN 1424-8220
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 1
- 25** Munoz-Romero, Sergio; Gorostiaga, Arantza; Soguero-Ruiz, Cristina; Mora-Jimenez, Inmaculada; Rojo-Alvarez, Jose Luis. Informative variable identifier: Expanding interpretability in feature selection. PATTERN RECOGNITION. 98, ELSEVIER SCI LTD, 01/02/2020. ISSN 0031-3203, ISSN 1873-5142
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 2
- 26** Aguilar-Palacios, Carlos; Munoz-Romero, Sergio; Rojo-Alvarez, Jose Luis. Cold-Start Promotional Sales Forecasting Through Gradient Boosted-Based Contrastive Explanations. IEEE ACCESS. 8, pp. 137574 - 137586. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/01/2020. ISSN 2169-3536
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 1
- 27** Rodriguez-Ibanez, Margarita; Gimeno-Blanes, Francisco-Javier; Manuel Cuenca-Jimenez, Pedro; Munoz-Romero, Sergio; Soguero-Ruiz, Cristina; Luis Rojo-Alvarez, Jose. On the Statistical and Temporal Dynamics of Sentiment Analysis. IEEE ACCESS. 8, pp. 87994 - 88013. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/01/2020. ISSN 2169-3536
Type of production: Scientific paper **Format:** Journal
Source of citations: WOS **Citations:** 0
- 28** Erratum: Comparison of Omegawave Device and an Ambulatory ECG for RR Interval Measurement at rest (Int J Sports Med DOI: 10.1055/a-1157-9220). 2020.
Type of production: Scientific paper



- 29** Rapid Estimation of TVWS: A Probabilistic Approach Based on Sensed Signal Parameters. 2020.
Type of production: Scientific paper
- 30** Gupta, Arjun; Christodoulou, Christos G.; Luis Rojo-Alvarez, Jose; Martinez-Ramon, Manel. Gaussian Processes for Direction-of-Arrival Estimation With Random Arrays. IEEE ANTENNAS AND WIRELESS PROPAGATION LETTERS. 18 - 11, pp. 2297 - 2300. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/11/2019. ISSN 1536-1225, ISSN 1548-5757
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.726
Position of publication: 27
Impact source: ISI
Impact index in year of publication: 3.726
Position of publication: 62
Source of citations: WOS
Format: Journal
Category: Science Edition - TELECOMMUNICATIONS
Journal in the top 25%: No
No. of journals in the cat.: 90
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 266
Citations: 1
- 31** Corral-De-Witt, Danilo; Ahmed, Sabbir; Awin, Faroq; Luis Rojo-Alvarez, Jose; Tepe, Kemal. An Accurate Probabilistic Model for TVWS Identification. APPLIED SCIENCES-BASEL. 9 - 20, MDPI, 01/10/2019. ISSN 2076-3417
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 161
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 32
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 63
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 88
Source of citations: WOS
Format: Journal
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 314
Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 91
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 155
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 177
Citations: 0
- 32** Bleda, Andres-Lorenzo; Melgarejo-Meseguer, Francisco-Manuel; Gimeno-Blanes, Francisco-Javier; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose; Corral, Javier; Ruiz, Ricardo; Maestre-Ferriz, Rafael. Enabling Heart Self-Monitoring for All and for AAL-Portable Device within a Complete Telemedicine System. SENSORS. 19 - 18, MDPI, 02/09/2019. ISSN 1424-8220
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.275
Format: Journal
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes



Position of publication: 15

Impact source: ISI

Impact index in year of publication: 3.275

Position of publication: 22

Impact source: ISI

Impact index in year of publication: 3.275

Position of publication: 77

Source of citations: WOS

No. of journals in the cat.: 64

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: No

No. of journals in the cat.: 86

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No

No. of journals in the cat.: 266

Citations: 3

33 On the Robustness of Multiscale Indices for Long-Term Monitoring in Cardiac Signals. 15/06/2019.

Type of production: Scientific paper

Format: Journal

34 Entropic Statistical Description of Big Data Quality in Hotel Customer Relationship Management. Entrophy. 21 - 4, pp. 419. 19/04/2019.

Type of production: Scientific paper

35 Corral-De-Witt, Danilo; Carrera, Enrique, V; Munoz-Romero, Sergio; Tepe, Kemal; Luis Rojo-Alvarez, Jose. Multiple Correspondence Analysis of Emergencies Attended by Integrated Security Services. APPLIED SCIENCES-BASEL. 9 - 7, MDPI, 01/04/2019. ISSN 2076-3417

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 2.474

Journal in the top 25%: No

Position of publication: 161

No. of journals in the cat.: 314

Impact source: ISI

Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY

Impact index in year of publication: 2.474

Journal in the top 25%: No

Position of publication: 32

No. of journals in the cat.: 91

Impact source: ISI

Category: Science Edition - PHYSICS, APPLIED

Impact index in year of publication: 2.474

Journal in the top 25%: No

Position of publication: 63

No. of journals in the cat.: 155

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 2.474

Journal in the top 25%: No

Position of publication: 88

No. of journals in the cat.: 177

Source of citations: WOS

Citations: 2

36 Pastor-Perez, Francisco J.; Garcia-Alberola, Arcadio; Navarro-Penalver, Marina; Goya-Esteban, Rebeca; Garrido-Bravo, Iris P.; Barquero-Perez, Oscar; Luis Rojo-Alvarez, Jose; Pascual-Figal, Domingo A.. Lack of improvement in autonomic cardiac tone after sacubitril/valsartan at lower than target doses. JOURNAL OF ELECTROCARDIOLOGY. 52, pp. 99 - 100. CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS, 01/01/2019. ISSN 0022-0736, ISSN 1532-8430

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS



Impact index in year of publication: 0.944
Position of publication: 133

Journal in the top 25%: No
No. of journals in the cat.: 138

Source of citations: WOS

Citations: 1

- 37** FM Melgarejo-Meseguer; FJ Gimeno-Blanes; E Salar; JR Gimeno Blanes; J Marti?nez Sa?nchez; A Garcí?a-Alberola; JL Rojo-A?lvarez Tí?tulo: (1) Electrocardiographic Fragmented Activity (I): Physiological Meaning of. Electrocardiographic Fragmented Activity (I): Physiological Meaning of Multivariate Signal Decompositions. AppliedSciences. 2019.
Type of production: Scientific paper **Format:** Journal
- 38** FM Melgarejo-Meseguer; FJ Gimeno-Blanes; E Salar; JR Gimeno Blanes; J Marti?nez Sa?nchez; A Garcí?a-Alberola; JL Rojo-A?lvarez Tí?tulo: (1) Electrocardiographic Fragmented Activity (I): Physiological Meaning of. Electrocardiographic Fragmented Activity (II): A Machine Learning Approach to Detection. AppliedSciences. 2019.
Type of production: Scientific paper **Format:** Journal
- 39** Forecasting Promotional Sales Within the Neighbourhood. IEEE Access. 4 - 2016, pp. 1 - 17. 2019.
Type of production: Scientific paper
- 40** Identification of prognostic variables in advanced ovarian cancer based on real-world patients from big data analytics. 2019.
Type of production: Scientific paper
- 41** Towards Organization Management Using Exploratory Screening and Big Data Tests: A Case Study of the Spanish Red Cross. IEEE Access. 7, pp. 80661 - 80674. 2019.
Type of production: Scientific paper
- 42** A Flexible 12-Lead/Holter Device with Compression Capabilities for Low-Bandwidth Mobile-ECG Telemedicine Applications. Sensors. 18 - 11, pp. 3773. 11/2018.
Type of production: Scientific paper
- 43** Talon-Ballester, Pilar; Gonzalez-Serrano, Lydia; Soguero-Ruiz, Cristina; Munoz-Romero, Sergio; Luis Rojo-Alvarez, Jose. Using big data from Customer Relationship Management information systems to determine the client profile in the hotel sector. TOURISM MANAGEMENT. 68, pp. 187 - 197. ELSEVIER SCI LTD, 01/10/2018. ISSN 0261-5177, ISSN 1879-3193
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Social Sciences Edition - MANAGEMENT
Impact index in year of publication: 6.012 **Journal in the top 25%:** Yes
Position of publication: 15 **No. of journals in the cat.:** 217
Impact source: ISI **Category:** Social Sciences Edition - HOSPITALITY, LEISURE, SPORT & TOURISM
Impact index in year of publication: 6.012 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 52
Impact source: ISI **Category:** Social Sciences Edition - ENVIRONMENTAL STUDIES
Impact index in year of publication: 6.012 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 116
Source of citations: WOS **Citations:** 23

- 44** Lillo-Castellano, J. M.; Rojo-Alvarez, J. L.; Chavarria-Asso, F.; Garcia-Garcia, A.; Martin-Mendez, M.; Garcia-Alberola, A.; Mora-Jimenez, I. Classifying cardiac arrhythmic episodes via data compression. NEUROCOMPUTING. 307, pp. 1 - 13. ELSEVIER, 13/09/2018. ISSN 0925-2312, ISSN 1872-8286
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.072
Position of publication: 28
Source of citations: WOS
Format: Journal
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 134
Citations: 0
- 45** Caulier-Cisterna, Raul; Munoz-Romero, Sergio; Sanroman-Junquera, Margarita; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. A new approach to the intracardiac inverse problem using Laplacian distance kernel. BIOMEDICAL ENGINEERING ONLINE. 17, BMC, 20/06/2018. ISSN 1475-925X
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.013
Position of publication: 52
Source of citations: WOS
Format: Journal
Category: Science Edition - ENGINEERING, BIOMEDICAL
Journal in the top 25%: No
No. of journals in the cat.: 80
Citations: 0
- 46** Gordillo-Orquera, Rodolfo; Munoz-Romero, Sergio; Arcos-Aviles, Diego; Chillon, Rafael; Lopez-Ramos, Luis M.; Marques, Antonio G.; Luis Rojo-Alvarez, Jose. Convex Programming and Bootstrap Sensitivity for Optimized Electricity Bill in Healthcare Buildings under a Time-Of-Use Pricing Scheme. ENERGIES. 11 - 6, MDPI, 01/06/2018. ISSN 1996-1073
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.707
Position of publication: 56
Source of citations: WOS
Format: Journal
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 103
Citations: 1
- 47** Rivas-Lalaleo, David; Munoz-Romero, Sergio; Huerta, Monica; Erazo-Rodas, Mayra; Jose Sanchez-Munoz, Juan; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadi. Force Trends and Pulsatility for Catheter Contact Identification in Intracardiac Electrograms during Arrhythmia Ablation. SENSORS. 18 - 5, MDPI, 01/05/2018. ISSN 1424-8220
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.031
Position of publication: 12
Impact source: ISI
Impact index in year of publication: 3.031
Position of publication: 15
Impact source: ISI
Impact index in year of publication: 3.031
Position of publication: 23
Source of citations: WOS
Format: Journal
Category: Science Edition - ELECTROCHEMISTRY
Journal in the top 25%: No
No. of journals in the cat.: 26
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 71
Category: Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: No
No. of journals in the cat.: 84
Citations: 1

- 48** Melgarejo-Meseguer, Francisco-Manuel; Everss-Villalba, Estrella; Gimeno-Blanes, Francisco-Javier; Blanco-Velasco, Manuel; Molins-Bordallo, Zaida; Flores-Yepes, Jose-Antonio; Rojo-Alvarez, Jose-Luis; Garcia-Alberola, Arcadi. On the Beat Detection Performance in Long-Term ECG Monitoring Scenarios. SENSORS. 18 - 5, MDPI, 01/05/2018. ISSN 1424-8220
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 3.031
Position of publication: 12
- Impact source:** ISI
Impact index in year of publication: 3.031
Position of publication: 15
- Impact source:** ISI
Impact index in year of publication: 3.031
Position of publication: 23
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - ELECTROCHEMISTRY
Journal in the top 25%: No
No. of journals in the cat.: 26
- Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 61
- Category:** Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: No
No. of journals in the cat.: 84
- Citations:** 5
- 49** Vizcalno, Ivan P.; Carrera, Enrique, V; Munoz-Romero, Sergio; Cumbal, Luis H.; Luis Rojo-Alvarez, Jose. Spatio-Temporal River Contamination Measurements with Electrochemical Probes and Mobile Sensor Networks. SUSTAINABILITY. 10 - 5, MDPI, 01/05/2018. ISSN 2071-1050
- Type of production:** Scientific paper
Impact source: ISI
- Impact index in year of publication:** 2.592
Position of publication: 105
- Impact source:** ISI
- Impact index in year of publication:** 2.592
Position of publication: 20
- Impact source:** ISI
- Impact index in year of publication:** 2.592
Position of publication: 3
- Impact source:** ISI
- Impact index in year of publication:** 2.592
Position of publication: 44
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - ENVIRONMENTAL SCIENCES
Journal in the top 25%: No
No. of journals in the cat.: 251
- Category:** GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 35
- Category:** GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 6
- Category:** Social Sciences Edition - ENVIRONMENTAL STUDIES
Journal in the top 25%: No
No. of journals in the cat.: 116
- Citations:** 2
- 50** Sanroman-Junquera, Margarita; Mora-Jimenez, Inmaculada; Garcia-Alberola, Arcadio; Caamano, Antonio J.; Trenor, Beatriz; Rojo-Alvarez, Jose L.. Arrhythmia Mechanism and Scaling Effect on the Spectral Properties of Electroanatomical Maps With Manifold Harmonics. IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING. 65 - 4, pp. 723 - 732. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/04/2018. ISSN 0018-9294, ISSN 1558-2531
- Type of production:** Scientific paper
Impact source: ISI
- Format:** Journal
Category: Science Edition - ENGINEERING, BIOMEDICAL



Impact index in year of publication: 4.491
Position of publication: 11

Source of citations: WOS

Journal in the top 25%: Yes
No. of journals in the cat.: 80

Citations: 0

- 51** Soguero-Ruiz, Cristina; Mora-Jimenez, Inmaculada; Ramos-Lopez, Javier; Quintanilla Fernandez, Teresa; Garcia-Garcia, Antonio; Diez-Mazueta, Daniel; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. An Interoperable System toward Cardiac Risk Stratification from ECG Monitoring. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 15 - 3, MDPI, 01/03/2018. ISSN 1660-4601
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.468
Position of publication: 112
Impact source: ISI
Impact index in year of publication: 2.468
Position of publication: 38
Impact source: ISI
Impact index in year of publication: 2.468
Position of publication: 67
Source of citations: WOS
- Format:** Journal
Category: Science Edition - ENVIRONMENTAL SCIENCES
Journal in the top 25%: No
No. of journals in the cat.: 251
Category: Social Sciences Edition - PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH
Journal in the top 25%: Yes
No. of journals in the cat.: 164
Category: Science Edition - PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH
Journal in the top 25%: No
No. of journals in the cat.: 186
Citations: 4
- 52** Gordillo-Orquera, Rodolfo; Miguel Lopez-Ramos, Luis; Munoz-Romero, Sergio; Iglesias-Casarrubios, Paz; Arcos-Aviles, Diego; Marques, Antonio G.; Luis Rojo-Alvarez, Jose. Analyzing and Forecasting Electrical Load Consumption in Healthcare Buildings. ENERGIES. 11 - 3, MDPI, 01/03/2018. ISSN 1996-1073
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.707
Position of publication: 56
Source of citations: WOS
- Format:** Journal
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: No
No. of journals in the cat.: 103
Citations: 3
- 53** Corral-De-Witt, Danilo; Carrera, Enrique V.; Munoz-Romero, Sergio; Luis Rojo-Alvarez, Jose. Statistical, Spatial and Temporal Mapping of 911 Emergencies in Ecuador. APPLIED SCIENCES-BASEL. 8 - 2, MDPI, 01/02/2018. ISSN 2076-3417
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.217
Position of publication: 151
Impact source: ISI
Impact index in year of publication: 2.217
Position of publication: 67
Impact source: ISI
Impact index in year of publication: 2.217
- Format:** Journal
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 293
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 148
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No



Position of publication: 89

No. of journals in the cat.: 172

Source of citations: WOS

Citations: 3

- 54** Corral-De-Witt, Danilo; Carrera, Enrique V.; Matamoros-Vargas, Jose A.; Munoz-Romero, Sergio; Luis Rojo-Alvarez, Jose; Tepe, Kemal. From E-911 to NG-911: Overview and Challenges in Ecuador. IEEE ACCESS. 6, pp. 42578 - 42591. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/01/2018. ISSN 2169-3536
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 4.098
Position of publication: 19
- Impact source:** ISI
Impact index in year of publication: 4.098
Position of publication: 23
- Impact source:** ISI
Impact index in year of publication: 4.098
Position of publication: 52
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - TELECOMMUNICATIONS
Journal in the top 25%: Yes
No. of journals in the cat.: 88
- Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS
Journal in the top 25%: Yes
No. of journals in the cat.: 155
- Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 266
- Citations:** 3
- 55** Cruz-Roldan, Fernando; Pineiro-Ave, Jose; Rojo-Alvarez, Jose L.; Blanco-Velasco, Manuel. Simple Algorithms for Estimating the Symbol Timing Offset in DCT-Based Multicarrier Systems. WIRELESS COMMUNICATIONS & MOBILE COMPUTING. WILEY-HINDAWI, 01/01/2018. ISSN 1530-8669, ISSN 1530-8677
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 1.396
Position of publication: 113
- Impact source:** ISI
Impact index in year of publication: 1.396
Position of publication: 186
- Impact source:** ISI
Impact index in year of publication: 1.396
Position of publication: 67
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS
Journal in the top 25%: No
No. of journals in the cat.: 155
- Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 266
- Category:** Science Edition - TELECOMMUNICATIONS
Journal in the top 25%: No
No. of journals in the cat.: 88
- Citations:** 1
- 56** Event Analysis on Power Communication Networks With Big Data for Maintenance Forms. IEEE Access. 6, pp. 72263. 2018.
- Type of production:** Scientific paper
- 57** M Erazo-Rodas; M Sandoval; S Munoz-Romero; M Huerta; D Rivas-Lalaleo; C Naranjo; JL Rojo-Alvarez. Multiparametric Monitoring in Equatorial Tomato Greenhouse (I): Wireless Sensor Network Benchmarking. Sensors. Intelligent Sensors. 18 - 8, pp. 2555. 2018.
- Type of production:** Scientific paper



- 58** M Erazo-Rodas; M Sandoval; S Munoz-Romero; M Huerta; D Rivas-Lalaleo; JL Rojo- Alvarez. Multiparametric Monitoring in Equatorial Tomato Greenhouse (II): EnergyConsumption Dynamics. Sensors.IntelligentSensors. 18 - 8, pp. 2556. 2018.

Type of production: Scientific paper

- 59** M Erazo-Rodas; M Sandoval; S Munoz-Romero; M Huerta; D Rivas-Lalaleo; JL Rojo- Alvarez. Multiparametric Monitoring in Equatorial Tomato Greenhouse (III): Environmen- tal Measurements Dynamics. Sensors. Intelligent Sensors. 18 - 8, pp. 2557. 2018.

Type of production: Scientific paper

- 60** Everss-Villalba, Estrella; Manuel Melgarejo-Meseguer, Francisco; Blanco-Velasco, Manuel; Javier Gimeno-Blanes, Francisco; Sala-Pla, Salvador; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadi. Noise Maps for Quantitative and Clinical Severity Towards Long-Term ECG Monitoring. SENSORS. 17 - 11, MDPI AG, 01/11/2017. ISSN 1424-8220

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2.475

Position of publication: 15

Impact source: ISI

Impact index in year of publication: 2.475

Position of publication: 16

Impact source: ISI

Impact index in year of publication: 2.475

Position of publication: 31

Source of citations: WOS

Format: Journal

Category: Science Edition - ELECTROCHEMISTRY

Journal in the top 25%: No

No. of journals in the cat.: 28

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: No

No. of journals in the cat.: 61

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: No

No. of journals in the cat.: 81

Citations: 9

- 61** Vizcaino, Ivan P.; Carrera, Enrique V.; Munoz-Romero, Sergio; Cumbal, Luis H.; Luis Rojo-Alvarez, Jose. Water Quality Sensing and Spatio-Temporal Monitoring Structure with Autocorrelation Kernel Methods. SENSORS. 17 - 10, MDPI, 01/10/2017. ISSN 1424-8220

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2.475

Position of publication: 15

Impact source: ISI

Impact index in year of publication: 2.475

Position of publication: 16

Impact source: ISI

Impact index in year of publication: 2.475

Position of publication: 31

Source of citations: WOS

Format: Journal

Category: Science Edition - ELECTROCHEMISTRY

Journal in the top 25%: No

No. of journals in the cat.: 28

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: No

No. of journals in the cat.: 61

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: No

No. of journals in the cat.: 81

Citations: 4

- 62** Blanco-Velasco, Manuel; Goya-Esteban, Rebeca; Cruz-Roldan, Fernando; Garcia-Alberola, Arcadi; Rojo-Alvarez, Jose Luis. Benchmarking of a T-wave alternans detection method based on empirical mode decomposition. COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE. 145, pp. 147 - 155. ELSEVIER IRELAND LTD, 01/07/2017. ISSN 0169-2607, ISSN 1872-7565

Type of production: Scientific paper

Format: Journal



Impact source: ISI

Impact index in year of publication: 2.674

Position of publication: 19

Impact source: ISI

Impact index in year of publication: 2.674

Position of publication: 26

Impact source: ISI

Impact index in year of publication: 2.674

Position of publication: 34

Impact source: ISI

Impact index in year of publication: 2.674

Position of publication: 9

Source of citations: WOS

Category: Science Edition - COMPUTER SCIENCE, THEORY & METHODS

Journal in the top 25%: Yes

No. of journals in the cat.: 103

Category: Science Edition - ENGINEERING, BIOMEDICAL

Journal in the top 25%: No

No. of journals in the cat.: 78

Category: Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

Journal in the top 25%: No

No. of journals in the cat.: 105

Category: Science Edition - MEDICAL INFORMATICS

Journal in the top 25%: No

No. of journals in the cat.: 25

Citations: 6

- 63** Barquero-Perez, Oscar; Santiago-Mozos, Ricardo; Lillo-Castellano, Jose M.; Garcia-Viruete, Beatriz; Goya-Esteban, Rebeca; Caamano, Antonio J.; Rojo-Alvarez, Jose L.; Martin-Caballero, Carlos. Fetal Heart Rate Analysis for Automatic Detection of Perinatal Hypoxia Using Normalized Compression Distance and Machine Learning. FRONTIERS IN PHYSIOLOGY. 8, FRONTIERS MEDIA SA, 28/02/2017. ISSN 1664-042X

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - PHYSIOLOGY

Impact index in year of publication: 3.394

Journal in the top 25%: Yes

Position of publication: 20

No. of journals in the cat.: 83

Source of citations: WOS

Citations: 1

- 64** Barquero-Perez, Oscar; Figuera, Carlos; Goya-Esteban, Rebeca; Mora-Jimenez, Inmaculada; Javier Gimeno-Blanes, Francisco; Laguna, Pablo; Pablo Martinez, Juan; Gil, Eduardo; Sornmo, Leif; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. On the Influence of Heart Rate and Coupling Interval Prematurity on Heart Rate Turbulence. IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING. 64 - 2, pp. 302 - 309. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/02/2017. ISSN 0018-9294, ISSN 1558-2531

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - ENGINEERING, BIOMEDICAL

Impact index in year of publication: 4.288

Journal in the top 25%: Yes

Position of publication: 9

No. of journals in the cat.: 78

Source of citations: WOS

Citations: 3

- 65** Vizcaino, Ivan P.; Carrera, Enrique V.; Sanroman-Junquera, Margarita; Munoz-Romero, Sergio; Luis Rojo-Alvarez, Jose; Cumbal, Luis H.. Spatio-Temporal Analysis of Water Quality Parameters in Machangara River with Nonuniform Interpolation Methods. WATER. 8 - 11, MDPI, 01/11/2016. ISSN 2073-4441

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - WATER RESOURCES

Impact index in year of publication: 1.832

Journal in the top 25%: No

Position of publication: 34

No. of journals in the cat.: 88

Source of citations: WOS

Citations: 4



- 66** J M Lillo Castellano; Manuel Marina Breysse; Alfonso Gómez Gallanti; J B Martínez Ferrer; Javier Alzueta; Luisa Pérez Álvarez; Arcadi Alberola; Ignacio Fernández Lozano; Anibal Rodríguez; Rosa Porro; Ignacio Anguera; Adolfo Fontenla; J J González Ferrer; Victoria Cañadas Godoy; Nicasio Pérez Castellano; Daniel Garófalo; Óscar Salvador Montañés; Conrado J Calvo; Jorge G Quintanilla; Rafael Peinado; Inmaculada Mora Jiménez; Julián Pérez Villacastín; J L Rojo Álvarez; David Filgueiras Rama. Safety threshold of R-wave amplitudes in patients with implantable cardioverter defibrillator. Heart (British Cardiac Society). 102 - 20, pp. 1662 - 1670. 15/10/2016. ISSN 1468-201X
Type of production: Scientific paper **Format:** Journal
- 67** Lara-Cueva, Roman A.; Benitez, Diego S.; Carrera, Enrique V.; Ruiz, Mario; Luis Rojo-Alvarez, Jose. Automatic Recognition of Long Period Events From Volcano Tectonic Earthquakes at Cotopaxi Volcano. IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING. 54 - 9, pp. 5247 - 5257. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/09/2016. ISSN 0196-2892, ISSN 1558-0644
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 4.942 **Journal in the top 25%:** Yes
Position of publication: 20 **No. of journals in the cat.:** 262
Impact source: ISI **Category:** Science Edition - IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY
Impact index in year of publication: 4.942 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 26
Impact source: ISI **Category:** Science Edition - REMOTE SENSING
Impact index in year of publication: 4.942 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 29
Impact source: ISI **Category:** Science Edition - GEOCHEMISTRY & GEOPHYSICS
Impact index in year of publication: 4.942 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 84
Source of citations: WOS **Citations:** 14
- 68** Gorostiaga, Arantza; Luis Rojo-Alvarez, Jose. On the use of conventional and statistical-learning techniques for the analysis of PISA results in Spain. NEUROCOMPUTING. 171, pp. 625 - 637. ELSEVIER SCIENCE BV, 01/01/2016. ISSN 0925-2312, ISSN 1872-8286
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact index in year of publication: 3.317 **Journal in the top 25%:** Yes
Position of publication: 24 **No. of journals in the cat.:** 133
Source of citations: WOS **Citations:** 8
- 69** Support Vector Feature Selection for Early Detection of Anastomosis Leakage from Bag-of-Words in Electronic Health Records. 2016.
Type of production: Scientific paper



- 70** Lillo-Castellano, J. M.; Mora-Jimenez, I.; Santiago-Mozos, R.; Chavarria-Asso, F.; Cano-Gonzalez, A.; Garcia-Alberola, A.; Rojo-Alvarez, J. L.. Symmetrical Compression Distance for Arrhythmia Discrimination in Cloud-Based Big-Data Services. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 19 - 4, pp. 1253 - 1263. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/07/2015. ISSN 2168-2194
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.093
Position of publication: 13
Impact source: ISI
Impact index in year of publication: 2.093
Position of publication: 26
Impact source: ISI
Impact index in year of publication: 2.093
Position of publication: 29
Impact source: ISI
Impact index in year of publication: 2.093
Position of publication: 8
Source of citations: WOS
- Format:** Journal
Category: Science Edition - MATHEMATICAL & COMPUTATIONAL BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 56
Category: Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
Journal in the top 25%: Yes
No. of journals in the cat.: 104
Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS
Journal in the top 25%: Yes
No. of journals in the cat.: 144
Category: Science Edition - MEDICAL INFORMATICS
Journal in the top 25%: No
No. of journals in the cat.: 20
Citations: 12
- 71** Lara, Roman; Benitez, Diego; Caamano, Antonio; Zennaro, Marco; Luis Rojo-Alvarez, Jose. On Real-Time Performance Evaluation of Volcano-Monitoring Systems With Wireless Sensor Networks. IEEE SENSORS JOURNAL. 15 - 6, pp. 3514 - 3523. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/06/2015. ISSN 1530-437X, ISSN 1558-1748
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 1.889
Position of publication: 16
Impact source: ISI
Impact index in year of publication: 1.889
Position of publication: 52
Impact source: ISI
Impact index in year of publication: 1.889
Position of publication: 77
Source of citations: WOS
- Format:** Journal
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: No
No. of journals in the cat.: 56
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 145
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 257
Citations: 37
- 72** Margarita Sanromán Junquera; Inmaculada Mora Jiménez; Jesús Almendral; Arcadio Garcia Alberola; José Luis Rojo Alvarez. Automatic Supporting System for Regionalization of Ventricular Tachycardia Exit Site in Implantable Defibrillators. PLoS ONE. 10/4(e0124514), pp. 1 - 14. (United States of America): 24/04/2015. Available on-line at: <10.1371/journal.pone.0124514>. ISSN 1932-6203
Type of production: Scientific paper
Position of signature: 5
- Format:** Journal



Relevant results: Revista indexada en la categoría MULTIDISCIPLINARY SCIENCES (Base de datos de indexación: SCI) Índice de Impacto 3.23 Posición que ocupa la revista en la categoría: 9 de 57, Tercil 1

- 73** Data-driven Temporal Prediction of Surgical Site Infection.2015.
Type of production: Scientific paper
- 74** Design and Implementation of a Wireless Sensor Network for Rose Greenhouses Monitoring. 2015.
Type of production: Scientific paper
- 75** Ricardo Santiago Mozos; José Luis Rojo Alvarez; JC Antoranz; Mar Desco; D Rodriguez Pérez; Raquel Yotti; Javier Bermejo. On Feature Extraction for Noninvasive Kernel Estimation of Left Ventricular Chamber Function Indices from Echocardiographic Images.Digital Signal Processing: A Review Journal. 39, pp. 63 - 79. (United States of America): 2015. Available on-line at: <10.1016/j.dsp.2014.12.012>. ISSN 1051-2004
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
- 76** Time and Frequency Feature Selection for Seismic Events from Cotopaxi Volcano. 2015.
Type of production: Scientific paper
- 77** Goya-Esteban, Rebeca; Sandberg, Frida; Barquero-Perez, Oscar; Garcia-Alberola, Arcadio; Sornmo, Leif; Luis Rojo-Alvarez, Jose. Long-term characterization of persistent atrial fibrillation: wave morphology, frequency, and irregularity analysis. MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING. 52 - 12, pp. 1053 - 1060. SPRINGER HEIDELBERG, 01/12/2014. ISSN 0140-0118, ISSN 1741-0444
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - MEDICAL INFORMATICS
Impact index in year of publication: 1.726 **Journal in the top 25%:** No
Position of publication: 14 **No. of journals in the cat.:** 24
Impact source: ISI **Category:** Science Edition - MATHEMATICAL & COMPUTATIONAL BIOLOGY
Impact index in year of publication: 1.726 **Journal in the top 25%:** No
Position of publication: 23 **No. of journals in the cat.:** 57
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
Impact index in year of publication: 1.726 **Journal in the top 25%:** No
Position of publication: 35 **No. of journals in the cat.:** 102
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 1.726 **Journal in the top 25%:** No
Position of publication: 39 **No. of journals in the cat.:** 76
Source of citations: WOS **Citations:** 10
- 78** Moreno, Javier; Quintanilla, Jorge G.; Molina-Morua, Roberto; Jesus Garcia-Torrent, Maria; Jose Angulo-Hernandez, Maria; Curiel-Llamazares, Carolina; Ramiro-Bargueno, Julio; Gonzalez, Pablo; Caamano, Antonio J.; Perez-Castellano, Nicasio; Luis Rojo-Alvarez, Jose; Macaya, Carlos; Perez-Villacastin, Julian. Morphological and Thermodynamic Comparison of the Lesions Created by 4 Open-Irrigated Catheters in 2 Experimental Models. JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY. 25 - 12, pp. 1391 - 1399. WILEY, 01/12/2014. ISSN 1045-3873, ISSN 1540-8167
Type of production: Scientific paper **Format:** Journal



Impact source: ISI

Impact index in year of publication: 3.156

Position of publication: 43

Source of citations: WOS

Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS

Journal in the top 25%: No

No. of journals in the cat.: 123

Citations: 18

- 79** Soguero-Ruiz, Cristina; Javier Gimeno-Blanes, Francisco; Mora-Jimenez, Inmaculada; del Pilar Martinez-Ruiz, Maria; Luis Rojo-Alvarez, Jose. Statistical nonlinear analysis for reliable promotion decision-making. DIGITAL SIGNAL PROCESSING. 33, pp. 156 - 168. ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/10/2014. ISSN 1051-2004, ISSN 1095-4333

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 1.256

Position of publication: 122

Source of citations: WOS

Format: Journal

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No

No. of journals in the cat.: 249

Citations: 2

- 80** Tuia, Devis; Munoz-Mari, Jordi; Luis Rojo-Alvarez, Jose; Martinez-Ramon, Manel; Camps-Valls, Gustavo. Explicit Recursive and Adaptive Filtering in Reproducing Kernel Hilbert Spaces. IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS. 25 - 7, pp. 1413 - 1419. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/07/2014. ISSN 2162-237X, ISSN 2162-2388

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.291

Position of publication: 1

Impact source: ISI

Impact index in year of publication: 4.291

Position of publication: 2

Impact source: ISI

Impact index in year of publication: 4.291

Position of publication: 6

Impact source: ISI

Impact index in year of publication: 4.291

Position of publication: 8

Source of citations: WOS

Format: Journal

Category: Science Edition - COMPUTER SCIENCE, THEORY & METHODS

Journal in the top 25%: Yes

No. of journals in the cat.: 102

Category: Science Edition - COMPUTER SCIENCE, HARDWARE & ARCHITECTURE

Journal in the top 25%: Yes

No. of journals in the cat.: 50

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 123

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: Yes

No. of journals in the cat.: 249

Citations: 3

- 81** Goya-Esteban, R.; Barquero-Perez, O.; Blanco-Velasco, M.; Caamano-Fernandez, A. J.; Garcia-Alberola, A.; Rojo-Alvarez, J. L.. Nonparametric Signal Processing Validation in T-Wave Alternans Detection and Estimation. IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING. 61 - 4, pp. 1328 - 1338. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/04/2014. ISSN 0018-9294, ISSN 1558-2531

Type of production: Scientific paper

Impact source: ISI

Format: Journal

Category: Science Edition - ENGINEERING, BIOMEDICAL

Impact index in year of publication: 2.347
Position of publication: 28

Journal in the top 25%: No
No. of journals in the cat.: 76

Source of citations: WOS

Citations: 11

- 82** Alonso-Atienza, Felipe; Morgado, Eduardo; Fernandez-Martinez, Lorena; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. Detection of Life-Threatening Arrhythmias Using Feature Selection and Support Vector Machines. IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING. 61 - 3, pp. 832 - 840. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/03/2014. ISSN 0018-9294, ISSN 1558-2531

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - ENGINEERING, BIOMEDICAL

Impact index in year of publication: 2.347

Journal in the top 25%: No

Position of publication: 28

No. of journals in the cat.: 76

Source of citations: WOS

Citations: 106

- 83** Figuera, Carlos; Barquero-Perez, Oscar; Luis Rojo-Alvarez, Jose; Martinez-Ramon, Manel; Guerrero-Curieses, Alicia; Caamano, Antonio J.. Spectrally adapted Mercer kernels for support vector nonuniform interpolation. SIGNAL PROCESSING. 94, pp. 421 - 433. ELSEVIER, 01/01/2014. ISSN 0165-1684, ISSN 1872-7557

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Impact index in year of publication: 2.209

Journal in the top 25%: Yes

Position of publication: 49

No. of journals in the cat.: 249

Source of citations: WOS

Citations: 13

- 84** José María Lillo Castellano; INMACULADA MORA JIMÉNEZ; Carlos Miguel Figuera Pozuelo; José Luis Rojo Alvarez. Traffic Sign Segmentation and Classification using Statistical Learning Method. Neurocomputing. 153, pp. 286 - 299. (Holland): 2014. ISSN 0925-2312

Type of production: Scientific paper

Format: Journal

Position of signature: 4

- 85** José María Lillo Castellano; Inmaculada Mora Jiménez; Ricardo Santiago-Mozos; José Luis Rojo Alvarez; Julio Ramiro Bargaño; Alejandro Algora Weber. Weaning Outcome Prediction from Heterogeneous Time Series using Normalized Compression Distance and Multidimensional Scaling. Expert Systems with Applications. 40/5, pp. 1737 - 1747. (United Kingdom): 05/04/2013. Available on-line at: <10.1016/j.eswa.2012.09.027>. ISSN 0957-4174

Type of production: Scientific paper

Format: Journal

Position of signature: 4

- 86** Jesús Requena Carrión; Felipe Alonso Atienza; Estrella Alberta Everss Villalba; Juan José Sánchez Muñoz; Mercedes Ortiz; Arcadi García Alberola; José Luis Rojo Alvarez. Analysis of the robustness of spectral indices during ventricular fibrillation. Biomedical Signal Processing and Control. (Holland): 2013. ISSN 1746-8094

Type of production: Scientific paper

Format: Journal

Position of signature: 7

- 87** Not all irrigated catheters transfer heat similarly. A comparison of 4 open-irrigated catheters. 2013.

Type of production: Scientific paper



- 88** Cristina Soguero Ruíz; Luis Lechuga; Inmaculada Mora Jiménez; Francisco Javier Ramos López; Óscar Barquero Pérez; Arcadio Garcia Alberola; José Luis Rojo Alvarez. Ontology for Heart Rate Turbulence Domain from the Conceptual Model of SNOMED-CT. IEEE Transactions on Biomedical Engineering. 60, pp. 1825 - 1833. (United States of America): 2013. ISSN 0018-9294
Type of production: Scientific paper **Format:** Journal
Position of signature: 7
- 89** Cristina Soguero Ruiz; Francisco Javier Gimeno Blanes; Inmaculada Mora Jiménez; María Pilar Martínez Ruiz; José Luis Rojo Alvarez. On the differential benchmarking of promotional efficiency with machine learning modeling (II): practical applications. Expert Systems with Applications. 17/39, pp. 12784 - 12798. (United Kingdom): 01/12/2012. Available on-line at: <10.1016/j.eswa.2012.04.035>. ISSN 0957-4174
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
- 90** El Gonnouni, Amina; Martinez-Ramon, Manel; Luis Rojo-Alvarez, Jose; Camps-Valls, Gustavo; Ramon Figueiras-Vidal, Anibal; Christodoulou, Christos G.. A Support Vector Machine MUSIC Algorithm. IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. 60 - 10, pp. 4901 - 4910. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/10/2012. ISSN 0018-926X, ISSN 1558-2221
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 2.332 **Journal in the top 25%:** Yes
Position of publication: 37 **No. of journals in the cat.:** 243
Impact source: ISI **Category:** Science Edition - TELECOMMUNICATIONS
Impact index in year of publication: 2.332 **Journal in the top 25%:** Yes
Position of publication: 9 **No. of journals in the cat.:** 78
Source of citations: WOS **Citations:** 23
- 91** Figuera, Carlos; Luis Rojo-Alvarez, Jose; Wilby, Mark; Mora-Jimenez, Inmaculada; Caamano, Antonio J.. Advanced support vector machines for 802.11 indoor location. SIGNAL PROCESSING. 92 - 9, pp. 2126 - 2136. ELSEVIER SCIENCE BV, 01/09/2012. ISSN 0165-1684, ISSN 1879-2677
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 1.851 **Journal in the top 25%:** Yes
Position of publication: 57 **No. of journals in the cat.:** 243
Source of citations: WOS **Citations:** 36
- 92** Pastor-Perez, Francisco J.; Manzano-Fernandez, Sergio; Goya-Esteban, Rebeca; Pascual-Figal, Domingo A.; Barquero-Perez, Oscar; Luis Rojo-Alvarez, Jose; Everss, Estrella; Martinez Martinez-Espejo, Maria Dolores; Valdes Chavarri, Mariano; Garcia-Alberola, Arcadi. Prognostic Significance of Long-Period Heart Rate Rhythms in Chronic Heart Failure. CIRCULATION JOURNAL. 76 - 9, pp. 2124 - 2129. JAPANESE CIRCULATION SOC, 01/09/2012. ISSN 1346-9843
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Impact index in year of publication: 3.578 **Journal in the top 25%:** No
Position of publication: 33 **No. of journals in the cat.:** 124
Source of citations: WOS **Citations:** 3



- 93** Jesús Almendral Garrote; Felipe Atienza; Estrella Everss; Loreto Castilla; Esteban Gonzalez Torrecilla; José Miguel Ormaetxe; Ángel Arenal; Mercedes Ortiz; Margarita Sanromán Junquera; Inmaculada Mora Jiménez; JM Bellon; José Luis Rojo Alvarez. Implantable defibrillator electrograms and origin of left ventricular impulses: an analysis of regionalization ability and visual spatial resolution. *Journal of Cardiovascular Electrophysiology*. 23, pp. 506 - 514. (United Kingdom): 05/2012. ISSN 1045-3873
Type of production: Scientific paper **Format:** Journal
Position of signature: 12
- 94** Alonso-Atienza, Felipe; Luis Rojo-Alvarez, Jose; Rosado-Munoz, Alfredo; Vinagre, Juan J.; Garcia-Alberola, Arcadi; Camps-Valls, Gustavo. Feature selection using support vector machines and bootstrap methods for ventricular fibrillation detection. *EXPERT SYSTEMS WITH APPLICATIONS*. 39 - 2, pp. 1956 - 1967. PERGAMON-ELSEVIER SCIENCE LTD, 01/02/2012. ISSN 0957-4174, ISSN 1873-6793
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - OPERATIONS RESEARCH & MANAGEMENT SCIENCE
Impact index in year of publication: 1.854 **Journal in the top 25%:** Yes
Position of publication: 13 **No. of journals in the cat.:** 79
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact index in year of publication: 1.854 **Journal in the top 25%:** No
Position of publication: 31 **No. of journals in the cat.:** 115
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 1.854 **Journal in the top 25%:** Yes
Position of publication: 56 **No. of journals in the cat.:** 243
Source of citations: WOS **Citations:** 46
- 95** Margarita Sanromán Junquera; Inmaculada Mora Jiménez; Antonio José Caamaño Fernández; Jesús Almendral; Felipe Atienza; Loreto Castilla; Arcadio Garcia Alberola; José Luis Rojo Alvarez. Digital Recovery of Biomedical Signals from Binary Images. *Signal Processing*. 92, pp. 43 - 43. (Holland): 01/01/2012. ISSN 0165-1684
Type of production: Scientific paper **Format:** Journal
Position of signature: 8
- 96** Prognostic significance of long-period heart rate rhythms in chronic heart failure. 2012.
Type of production: Scientific paper
- 97** Diego Álvarez; Felipe Alonso Atienza; José Luis Rojo Alvarez; Arcadi García Alberola; Miguel Moscoso. Shape Reconstruction of Cardiac Ischemia from Non-contact Intracardiac Recordings: a Model Study. *Mathematical and Computer Modelling*. 55, pp. 1770 - 1781. (United Kingdom): 2012. ISSN 0895-7177
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
- 98** VENTRICULAR, VALVULAR, AND VASCULAR ADAPTATION TO AORTIC VALVE STENOSIS. INTEGRATED FREQUENCY-DOMAIN AND WAVE-INTENSITY ANALYSES IN EXPERIMENTAL CHRONIC DISEASE. 2012.
Type of production: Scientific paper
- 99** Manzano-Fernandez, Sergio; Pastor-Perez, Francisco J.; Barquero-Perez, Oscar; Pascual-Figal, Domingo A.; Goya-Esteban, Rebeca; Luis Rojo-Alvarez, Jose; Caamano-Fernandez, Antonio; Martinez Martinez-Espejo, Maria Dolores; Januzzi, James Louis; Valdes, Mariano; Garcia-Alberola, Arcadio. Short-Term Variability of Heart Rate



Turbulence in Chronic Heart Failure. JOURNAL OF CARDIAC FAILURE. 17 - 9, pp. 735 - 741. CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS, 01/09/2011. ISSN 1071-9164

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS

Impact index in year of publication: 3.66

Journal in the top 25%: No

Position of publication: 31

No. of journals in the cat.: 117

Source of citations: WOS

Citations: 6

100 Figuera, Carlos; Luis Rojo-Alvarez, Jose; Mora-Jimenez, Inmaculada; Guerrero-Curienes, Alicia; Wilby, Mark; Ramos-Lopez, Javier. Time-Space Sampling and Mobile Device Calibration for WiFi Indoor Location Systems. IEEE TRANSACTIONS ON MOBILE COMPUTING. 10 - 7, pp. 913 - 926. IEEE COMPUTER SOC, 01/07/2011. ISSN 1536-1233, ISSN 1558-0660

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Impact index in year of publication: 2.283

Journal in the top 25%: Yes

Position of publication: 16

No. of journals in the cat.: 135

Impact source: ISI

Category: Science Edition - TELECOMMUNICATIONS

Impact index in year of publication: 2.283

Journal in the top 25%: Yes

Position of publication: 9

No. of journals in the cat.: 79

Source of citations: WOS

Citations: 47

101 Ramon Feijoo, Juan; Cid-Sueiro, Jesus; Antonio Garcia-Lopez, Juan; Conde, Patricia; Luis Rojo-Alvarez, Jose. Optimal Double Route Search in a Telecommunication Network: A Telecontrol Network Application. IEEE TRANSACTIONS ON RELIABILITY. 60 - 1, pp. 341 - 350. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/03/2011. ISSN 0018-9529

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Impact index in year of publication: 1.285

Journal in the top 25%: No

Position of publication: 100

No. of journals in the cat.: 245

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, HARDWARE & ARCHITECTURE

Impact index in year of publication: 1.285

Journal in the top 25%: Yes

Position of publication: 12

No. of journals in the cat.: 50

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, SOFTWARE ENGINEERING

Impact index in year of publication: 1.285

Journal in the top 25%: Yes

Position of publication: 26

No. of journals in the cat.: 104

Source of citations: WOS

Citations: 2

102 Gimeno-Blanes, F. J.; Rojo-Alvarez, J. L.; Caamano, A. J.; Flores-Yepes, J. A.; Garcia-Alberola, A.. On the feasibility of tilt test outcome early prediction using ECG and pressure parameters. EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING. SPRINGER, 01/01/2011. ISSN 1687-6180

Type of production: Scientific paper

Format: Journal

Impact source: ISI



Impact index in year of publication: 0.811

Position of publication: 151

Source of citations: WOS

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No

No. of journals in the cat.: 245

Citations: 5

- 103** Evaluation of Promotional and Cross-Promotional Effects Using Support Vector Machine Semiparametric Regression. 2011.
Type of production: Scientific paper
- 104** Prevalence of short QT in inherited cardiac disease and SADS clinic. 2011.
Type of production: Scientific paper
- 105** Antonio García Marqués; Ana Belén Rodríguez González; José Luis Rojo Alvarez; Jesús Requena Carrión; Francisco Javier Ramos López. Optimizing Average Performance of OFDM Systems Using Limited-Rate Feedback. IEEE Wireless Communications. 9/10, pp. 3130 - 3143. (United States of America): 01/10/2010. Available on-line at: <10.1109/TWC.2010.082710.091328>. ISSN 1536-1284
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
- 106** Pastor-Perez, Francisco J.; Manzano-Fernandez, Sergio; Goya-Esteban, Rebeca; Pascual-Figal, Domingo A.; Barquero-Perez, Oscar; Luis Rojo-Alvarez, Jose; Martinez Martinez-Espejo, Maria Dolores; Valdes Chavarri, Mariano; Garcia-Alberola, Arcadio. Comparison of Detection of Arrhythmias in Patients With Chronic Heart Failure Secondary to Non-Ischemic Versus Ischemic Cardiomyopathy by 1 Versus 7-Day Holter Monitoring. AMERICAN JOURNAL OF CARDIOLOGY. 106 - 5, pp. 677 - 681. EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC, 01/09/2010. ISSN 0002-9149, ISSN 1879-1913
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Impact index in year of publication: 3.681 **Journal in the top 25%:** Yes
Position of publication: 28 **No. of journals in the cat.:** 114
Source of citations: WOS **Citations:** 12
- 107** Barquero-Perez, Oscar; Luis Rojo-Alvarez, Jose; Caamano, Antonio J.; Goya-Esteban, Rebeca; Everss, Estrella; Alonso-Atienza, Felipe; Jose Sanchez-Munoz, Juan; Garcia-Alberola, Arcadi. Fundamental Frequency and Regularity of Cardiac Electrograms With Fourier Organization Analysis. IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING. 57 - 9, pp. 2168 - 2177. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/09/2010. ISSN 0018-9294, ISSN 1558-2531
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 1.79 **Journal in the top 25%:** No
Position of publication: 32 **No. of journals in the cat.:** 70
Source of citations: WOS **Citations:** 14
- 108** Goya-Esteban, Rebeca; Mora-Jimenez, Inmaculada; Luis Rojo-Alvarez, Jose; Barquero-Perez, Oscar; Pastor-Perez, Francisco J.; Manzano-Fernandez, Sergio; Pascual-Figal, Domingo A.; Garcia-Alberola, Arcadi. Heart Rate Variability on 7-Day Holter Monitoring Using a Bootstrap Rhythmometric Procedure. IEEE



TRANSACTIONS ON BIOMEDICAL ENGINEERING. 57 - 6, pp. 1366 - 1376. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/06/2010. ISSN 0018-9294, ISSN 1558-2531

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - ENGINEERING, BIOMEDICAL

Impact index in year of publication: 1.79

Journal in the top 25%: No

Position of publication: 32

No. of journals in the cat.: 70

Source of citations: WOS

Citations: 20

- 109** Feijoo, Juan; Luis Rojo-Alvarez, Jose; Cid Sueiro, Jesus; Conde-Pardo, Patricia; Luis Mata-Vigil-Escalera, Jose. Modeling Link Events in High Reliability Networks With Support Vector Machines. IEEE TRANSACTIONS ON RELIABILITY. 59 - 1, pp. 191 - 202. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/03/2010. ISSN 0018-9529, ISSN 1558-1721

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, HARDWARE & ARCHITECTURE

Impact index in year of publication: 1.288

Journal in the top 25%: No

Position of publication: 16

No. of journals in the cat.: 48

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, SOFTWARE ENGINEERING

Impact index in year of publication: 1.288

Journal in the top 25%: No

Position of publication: 35

No. of journals in the cat.: 99

Impact source: ISI

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Impact index in year of publication: 1.288

Journal in the top 25%: No

Position of publication: 96

No. of journals in the cat.: 247

Source of citations: WOS

Citations: 4

- 110** Skeletal myoblast implants induce minor propagation delays, but do not promote arrhythmias in the normal swine heart. 2010.

Type of production: Scientific paper

- 111** Figuera, Carlos; Mora-Jimenez, Inmaculada; Guerrero-Curieses, Alicia; Luis Rojo-Alvarez, Jose; Everss, Estrella; Wilby, Mark; Ramos-Lopez, Javier. Nonparametric Model Comparison and Uncertainty Evaluation for Signal Strength Indoor Location. IEEE TRANSACTIONS ON MOBILE COMPUTING. 8 - 9, pp. 1250 - 1264. IEEE COMPUTER SOC, 01/09/2009. ISSN 1536-1233, ISSN 1558-0660

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Impact index in year of publication: 2.647

Journal in the top 25%: Yes

Position of publication: 14

No. of journals in the cat.: 116

Impact source: ISI

Category: Science Edition - TELECOMMUNICATIONS

Impact index in year of publication: 2.647

Journal in the top 25%: Yes

Position of publication: 4

No. of journals in the cat.: 77

Source of citations: WOS

Citations: 22



- 112** Mariano Valdés; Mercedes Ortiz; Arcadio García Alberola; Jesús Requena Carrión; Estrella Alberta Everss Villalba; José Luis Rojo Alvarez; Juan Martínez Sánchez; Juan José Sanchez Muñoz. Spectral Analysis of Sustained and Non-Sustained Ventricular Fibrillation in Patients With an Implantable Cardioverter-Defibrillator. Revista Espanola de Cardiologia. 6/62, pp. 690 - 693. (Spain): 01/06/2009. ISSN 0300-8932
Type of production: Scientific paper **Format:** Journal
Position of signature: 6
- 113** Gustavo Camps Valls; Jordi Muñoz Mari; Manel Martínez Ramón; Jesús Requena Carrión; José Luis Rojo Alvarez. Learning Non-linear Time Scales with Kernel Gamma Filters. Neurocomputing. 72/4-6, pp. 1324 - 1328. (Holland): 06/2009. ISSN 0925-2312
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
- 114** JUAN JOSE SANCHEZ MUÑOZ; José Luis Rojo Alvarez; Estrella Alberta Everss Villalba; Felipe Alonso Atienza; Mercedes Ortiz; Juan Martínez; Arcadio Garcia Alberola; Francisco Javier Ramos López; Mariano Valdés. Spectral Analysis of Intracardiac Electrograms During Induced and Spontaneous Ventricular Fibrillation in Humans. Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology. 11/3, pp. 328 - 331. (United Kingdom): 03/2009. ISSN 1099-5129
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
- 115** Luis Rojo-Alvarez, Jose; Barquero-Perez, Oscar; Mora-Jimenez, Inmaculada; Everss, Estrella; Belen Rodriguez-Gonzalez, Ana; Garcia-Alberola, Arcadi. Heart Rate Turbulence Denoising Using Support Vector Machines. IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING. 56 - 2, pp. 310 - 319. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/02/2009. ISSN 0018-9294
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 2.154 **Journal in the top 25%:** No
Position of publication: 22 **No. of journals in the cat.:** 59
Source of citations: WOS **Citations:** 15
- 116** Óscar Barquero Pérez; Rebeca Goya Esteban; Felipe Alonso Atienza; Jesús Requena Carrión; Estrella Alberta Everss Villalba; Arcadi García Alberola; José Luis Rojo Alvarez. A Review on Recent Patents in Digital Processing for Cardiac Electric Signals (II): Advanced Signals and Applications. Recent Patents on Biomedical Engineering. 2, pp. 32 - 47. 2009.
Type of production: Scientific paper **Format:** Journal
Position of signature: 7
- 117** Rebeca Goya Esteban; Óscar Barquero Pérez; Felipe Alonso Atienza; Estrella Alberta Everss Villalba; Jesús Requena Carrión; Arcadio Garcia Alberola; José Luis Rojo Alvarez. A Review on Recent Patents in Digital Signal Preprocessing for Cardiac Electric Signals (I): From Basic Systems to Arrhythmia Analysis. Recent Patents on Biomedical Engineering. 2, pp. 22 - 31. 2009.
Type of production: Scientific paper **Format:** Journal
Position of signature: 7
- 118** Critical Telecommunication Services Modeling in a Transmission System Power Operator. 2009.
Type of production: Scientific paper



- 119** José Luis Rojo Alvarez; Alicia Guerrero Curieses; Patricia Conde Pardo; Jose Luis Alba; I Landesa; Francisco Javier Ramos López. On the Performance of Kernel Methods for Skin Color Segmentation. *Eurasip Journal on Applied Signal Processing*. (United States of America): 2009. ISSN 1110-8657
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 120** Jesús Requena Carrión; Juho Vaisanen; Felipe Alonso Atienza; Arcadi García Alberola; Francisco Javier Ramos López; José Luis Rojo Alvarez. Sensitivity and Spatial Resolution of Transvenous Leads in Implantable Cardioverter Defibrillator. *IEEE Transactions on Biomedical Engineering*. 56/12, pp. 2773 - 2781. (United States of America): 2009. ISSN 0018-9294
Type of production: Scientific paper **Format:** Journal
Position of signature: 6
- 121** Camps-Valls, Gustavo; Gomez-Chova, Luis; Munoz-Mari, Jordi; Rojo-Alvarez, Jose Luis; Martinez-Ramon, Manel. Kernel-based framework for multitemporal and multisource remote sensing data classification and change detection. *IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*. 46 - 6, pp. 1822 - 1835. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/06/2008. ISSN 0196-2892, ISSN 1558-0644
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - REMOTE SENSING
Impact index in year of publication: 3.157 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 15
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 3.157 **Journal in the top 25%:** Yes
Position of publication: 20 **No. of journals in the cat.:** 229
Impact source: ISI **Category:** Science Edition - GEOCHEMISTRY & GEOPHYSICS
Impact index in year of publication: 3.157 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 64
Source of citations: WOS **Citations:** 254
- 122** Felipe Alonso Atienza; Arcadio García Alberola; Estrella Alberta Everss Villalba; Jesús Requena Carrión; José Luis Rojo Alvarez; Mariano Valdés; Juan José Sanchez Muñoz. Effects of the Location of Myocardial Infarction on the Spectral Characteristics of Ventricular Fibrillation. *PACE - Pacing and Clinical Electrophysiology*. 31/6, pp. 660 - 665. (United Kingdom): 2008. ISSN 0147-8389
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
- 123** MP Martinez; A Molla; MA Gomez; José Luis Rojo Alvarez. SVM Semiparametric Regression to Estimate Cross-Price Effects: An Empirical Application for Frequently Purchased Categories with Different Perishability Rates. *International Journal of Market Research*. (United Kingdom): 2008. ISSN 1470-7853
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 124** Jordi Muñoz Mari; Gustavo Camps Valls; Anibal Ramon Figueiras; Manel Martínez Ramón; José Luis Rojo Alvarez. Sparse Deconvolution Using Support Vector Machines. *EURASIP. Journal on Advances in Signal Processing*. 2008. ISSN 1687-617
Type of production: Scientific paper **Format:** Journal
Position of signature: 5



- 125** Spatial resolution of ICD electrograms to identify different sites of left ventricular impulses. 2008.
Type of production: Scientific paper
- 126** MP Martinez; MIGUEL ANGEL GÓMEZ BORJA; A Molla; José Luis Rojo Alvarez. Using Support Vector Semiparametric Regression to Estimate the Effects of Pricing on Brand Substitution. International Journal of Market Research. 50/4, pp. 533 - 557. (United Kingdom): 2008. ISSN 1470-7853
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 127** Rojo-Alvarez, Jose Luis; Bermejo, Javier; Rodriguez-Gonzalez, Ana Belen; Martinez-Fernandez, Andres; Yotti, Raquel; Garcia-Fernandez, Miguel A.; Antoranz, Jose Carlos. Impact of image spatial, temporal, and velocity resolutions on cardiovascular indices derived from color-Doppler echocardiography. MEDICAL IMAGE ANALYSIS. 11 - 6, pp. 513 - 525. ELSEVIER SCIENCE BV, 01/12/2007. ISSN 1361-8415
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING
Impact index in year of publication: 3.505 **Journal in the top 25%:** Yes
Position of publication: 11 **No. of journals in the cat.:** 87
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 3.505 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 44
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
Impact index in year of publication: 3.505 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 92
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact index in year of publication: 3.505 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 93
Source of citations: WOS **Citations:** 10
- 128** Camps-Valls, Gustavo; Martinez-Ramon, Manel; Rojo-Alvarez, Jose Luis; Munoz-Mari, Jordi. Nonlinear system identification with composite relevance vector machines. IEEE SIGNAL PROCESSING LETTERS. 14 - 4, pp. 279 - 282. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/04/2007. ISSN 1070-9908, ISSN 1558-2361
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 1.115 **Journal in the top 25%:** No
Position of publication: 74 **No. of journals in the cat.:** 227
Source of citations: WOS **Citations:** 17
- 129** Action potential alternans in LQT3 syndrome: a simulation study.2007.
Type of production: Scientific paper
- 130** Contribution of the left anterior myocardium to the body surface potentials in case of apical ectopic beat.2007.
Type of production: Scientific paper



- 140** MP Martinez; A Molla; MA Gomez; José Luis Rojo Alvarez. Evaluating Temporary Retail Price Discounts Using Semiparametric Regression. *Journal of Product and Brand Management*. 1/15, pp. 73 - 80. (United States of America): 2006. ISSN 1061-0421
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 141** Measurement of the transtricuspid pressure gradient by color-Doppler M-mode echocardiography: a new tool for the noninvasive assessment of RV diastolic function. 2006.
Type of production: Scientific paper
- 142** Noninvasive assessment of the transtricuspid pressure difference (TTPD) in humans. 2006.
Type of production: Scientific paper
- 143** Raquel Yotti; Mar Desco; Cristina Cortina; José Luis Rojo Alvarez. Robust Support Vector Regression for Biophysical Variable Estimation from Remotely Sensed Images. *IEEE Geoscience and Remote Sensing Letters*. 3/3, pp. 339 - 343. (United States of America): 2006. ISSN 1545-598X
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 144** José Luis Rojo Alvarez; Raquel Yotti; Javier Bermejo; Mar Desco; JC Antoranz; Cristina Cortina. Support Vector Analysis of Color-Doppler Images: a new approach for estimating indices of left ventricular function. *IEEE Transactions on Medical Imaging*. 8/25, pp. 1037 - 1043. (United States of America): 2006. ISSN 0278-0062
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 145** Manel Martínez Ramón; José Luis Rojo Alvarez; Gustavo Camps Valls; Angel Navia; Emilio Soria; Anibal Ramon Figueiras. Support Vector Machines for Nonlinear Kernel ARMA System Identification. *IEEE Transactions on Neural Networks*. 6/17, pp. 1617 - 1622. (United States of America): 2006. ISSN 1045-9227
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
- 146** JC Antoranz; José Luis Rojo Alvarez; Felipe Alonso Atienza; Javier Bermejo. Support Vector Machines for Robust Channel Estimation in OFDM. *IEEE Signal Processing Letters*. 7/13, pp. 397 - 400. (United States of America): 2006. ISSN 1070-9908
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
- 147** The analysis of Doppler-derived end-systolic intraventricular pressure gradients provides a reliable estimation of the rate of ventricular relaxation. 2006.
Type of production: Scientific paper
- 148** MP Martinez; A Molla; MA García; José Luis Rojo Alvarez. Using Daily Store-Level Data to Understand Price Promotion Effects in a Semiparametric Regression Model. *Journal of Retailing and Consumer Services*. 13, pp. 193 - 204. (United Kingdom): 2006. ISSN 0969-6989
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 149** Rojo-Alvarez, JL; Garcia-Alberola, A; Artes-Rodriguez, A; Arenal-Maiz, A. Tachycardia discrimination in implantable cardioverter defibrillators using support vector machines and bootstrap resampling. *SUPPORT VECTOR MACHINES:THEORY AND APPLICATIONS*. 177, pp. 413 - 431. SPRINGER-VERLAG BERLIN, 01/01/2005. ISSN 1434-9922
Type of production: Scientific paper **Format:** Journal

**Source of citations:** WOS**Citations:** 0

- 150** Raquel Yotti; Javier Bermejo; Mar Desco; JC Antoranz; José Luis Rojo Alvarez; Cristina Cortina. A Noninvasive Method for Assessing Impaired Diastolic Suction in Patients with Dilated Cardiomyopathy. *Circulation*. 112, pp. 2921 - 2929. (United States of America): 2005. ISSN 0009-7322
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
- 151** Felipe Alonso Atienza; Jesús Requena Carrión; Arcadio García Alberola; José Luis Rojo Alvarez; Juan José Sanchez Muñoz; Juan Martinez; Mariano Valdés. A Probabilistic Model of Cardiac Electrical Activity Based on a Cellular Automata System. *Revista Espanola de Cardiologia*. 1/58, pp. 41 - 47. (Spain): 2005. ISSN 0300-8932
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 152** Raquel Yotti; Javier Bermejo; Mar Desco; JC Antoranz; José Luis Rojo Alvarez; Cristina Cortina. Doppler-derived ejection intraventricular pressure gradients provide a reliable assessment of left ventricular systolic chamber function. *Circulation*. 112, pp. 1771 - 1779. (United States of America): 2005. ISSN 0009-7322
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
- 153** Arcadio García Alberola; Julian Lacunza Ruiz; José Luis Rojo Alvarez; Juan José Sanchez Muñoz; Juan Martinez Sánchez; Jesús Requena Carrión; Mariano Valdés. El incremento precoz de la frecuencia cardiaca no predice el resultado de la prueba de basculación potenciada con nitroglicerina. *Revista Espanola de Cardiologia*. 5/58, pp. 499 - 503. (Spain): 2005. ISSN 0300-8932
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
- 154** MA García; MP Martinez; José Luis Rojo Alvarez; A Molla. La influencia de las características del descuento de precio promocional minorista sobre las ventas: aplicación de un modelo semiparamétrico. *REVISTA ESPAÑOLA DE INVESTIGACIÓN EN MARKETING*. 16, pp. 159 - 181. 2005.
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
- 155** Non-invasive assessment of the transtricuspid right ventricular filling pressure gradient. 2005.
Type of production: Scientific paper
- 156** José Luis Rojo Alvarez; Mar Desco; Javier Bermejo; Raquel Yotti; Cristina Cortina; JC Antoranz. Support Vector Machines Framework for Linear Signal Processing. *Signal Processing*. 85, pp. 2316 - 2326. (Holland): 2005. ISSN 0165-1684
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 157** [A probabilistic model of cardiac electrical activity based on a cellular automata system].2005.
Type of production: Scientific paper
- 158** [Early heart rate increase does not predict the result of the head-up tilt test potentiated with nitroglycerin].2005.
Type of production: Scientific paper



- 159** Camps-Valls, G; Martin-Guerrero, JD; Rojo-Alvarez, JL; Soria-Olivas, E. Fuzzy sigmoid kernel for support vector classifiers. NEUROCOMPUTING. 62, pp. 501 - 506. ELSEVIER, 01/12/2004. ISSN 0925-2312, ISSN 1872-8286
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact index in year of publication: 0.641 **Journal in the top 25%:** No
Position of publication: 45 **No. of journals in the cat.:** 78
Source of citations: WOS **Citations:** 29
- 160** Camps-Valls, G; Martinez-Ramon, M; Rojo-Alvarez, JL; Soria-Olivas, E. Robust gamma-filter using support vector machines. NEUROCOMPUTING. 62, pp. 493 - 499. ELSEVIER SCIENCE BV, 01/12/2004. ISSN 0925-2312, ISSN 1872-8286
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact index in year of publication: 0.641 **Journal in the top 25%:** No
Position of publication: 45 **No. of journals in the cat.:** 78
Source of citations: WOS **Citations:** 7
- 161** Epidemiology, etiology and diagnosis of venous thrombosis. 2004.
Type of production: Scientific paper
- 162** Javier Bermejo; José Luis Rojo Alvarez; JC Antoranz; M Abel; I Burwash; Raquel Yotti. Estimation of the End of Ejection in aortic Stenosis. An Unreported Source of Error in the Invasive Assessment of Severity. Circulation. 110, pp. 1114 - 1120. (United States of America): 2004. ISSN 0009-7322
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
- 163** J Silva; JC Antoranz; José Luis Rojo Alvarez; C Allue; Javier Bermejo; Raquel Yotti. Noninvasive Assessment of Ejection Intraventricular Pressure Gradients. Journal of the American College of Cardiology. 9/43, pp. 1654 - 1662. (Holland): 2004. ISSN 0735-1097
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
- 164** José Luis Rojo Alvarez; Javier Bermejo; Mar Desco; Raquel Yotti; JC Antoranz. Support Vector Method for Robust ARMA System Identification. IEEE Transactions on Signal Processing. 1/52, pp. 155 - 164. (United States of America): 2004. ISSN 1053-587X
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 165** José Luis Rojo Alvarez; Angel Arenal; Arcadio García Alberola; Mercedes Ortiz; Mariano Valdés; Antonio Artés. A New Algorithm for Rhythm Discrimination in Cardioverter Defibrillators Based on the Initial Voltage Changes of the Ventricular Electrogram. Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology. 1/5, pp. 77 - 82. (United Kingdom): 2003. ISSN 1099-5129
Type of production: Scientific paper **Format:** Journal
Position of signature: 1



- 166** José Luis Rojo Alvarez; JC Antoranz; Javier Bermejo; Cristina Cortina; Raquel Yotti. A Robust Support Vector Algorithm for Non-Parametric Spectral Analysis. IEEE Signal Processing Letters. 11/10, pp. 320 - 323. (United States of America): 2003. ISSN 1070-9908
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 167** Noninvasive assessment of ventricular relaxation and contractility indices by analysis of intraventricular ejection pressure-gradient curves derived from Doppler echocardiography. 2003.
Type of production: Scientific paper
- 168** José Luis Rojo Alvarez; Arcadio García Alberola; Angel Arenal; José Piñeiro; Mariano Valdés; Antonio Artés. Automatic Discrimination Between Supraventricular and Ventricular Tachycardia Using a Multilayer Perceptron in Implantable Cardioverter-Defibrillators. PACE - Pacing and Clinical Electrophysiology. 11/25, pp. 1599 - 1604. (United Kingdom): 2002. ISSN 0147-8389
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 169** José Luis Rojo Alvarez; Angel Arenal; Antonio Artés. Discriminating Between Supraventricular and Ventricular Tachycardias from EGM Onset Analysis. IEEE Engineering in Medicine and Biology Magazine. 1/21, pp. 16 - 26. (United States of America): 2002. ISSN 0739-5175
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 170** Eduardo Pinar; Arcadio García Alberola; C LLamas; T Vicente; J López; José Luis Rojo Alvarez. Effects of Verapamil on Indexes of Heart Rate Variability After Acute Myocardial Infarction. American Journal of Cardiology. 9/81, pp. 1085 - 1089. (United States of America): 2002. ISSN 0002-9149
Type of production: Scientific paper **Format:** Journal
Position of signature: 6
- 171** Javier Bermejo; JC Antoranz; I Burwash; José Luis Rojo Alvarez; Mar Moreno; MA García. In-Vivo Analysis of the Instantaneous Transvalvular Pressure Difference in Aortic Valve Stenosis. Implications of Unsteady Fluid-dynamics for the Clinical Assessment of Disease Severity. Journal of Heart Valve Disease. 4/11, pp. 557 - 566. (United Kingdom): 2002. ISSN 0966-8519
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
- 172** José Luis Rojo Alvarez; Angel Arenal; Antonio Artés. Support Vector Black-Box Interpretation in Ventricular Arrhythmia Discrimination. IEEE Engineering in Medicine and Biology Magazine. 1/21, pp. 27 - 35. (United States of America): 2002. ISSN 0739-5175
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
- 173** Support Vector robust algorithms for non-parametric spectral analysis. 2002.
Type of production: Scientific paper
- 174** Systolic intraventricular pressure gradients measured by color-Doppler m-mode: A new tool to assess ventricular hemodynamics. 2002.
Type of production: Scientific paper
- 175** Deconvolution and causality for 1:1 arrhythmia discrimination in dual chamber defibrillator. 2001.
Type of production: Scientific paper

**Position of signature: 4**

- 186** Rojo-Alvarez, Jose L.; Camps-Valls, Gustavo; Caamano-Fernandez, Antonio J.; Guerrero-Martinez, Juan F.. A Review of Kernel Methods in ECG Signal Classification. ECG SIGNAL PROCESSING, CLASSIFICATION AND INTERPRETATION: A COMPREHENSIVE FRAMEWORK OF COMPUTATIONAL INTELLIGENCE. pp. 195 - 217. SPRINGER-VERLAG LONDON LTD, 01/01/2012. ISBN 978-0-85729-867-6
Type of production: Book chapter **Format:** Book
Source of citations: WOS **Citations:** 0
- 187** Felipe Alonso Atienza; Alfredo Rosado Muñoz; José Luis Rojo Alvarez; Gustavo Camps Valls. Intelligent Systems: Techniques and Application. Learning the relevant features of ventricular fibrillation from automatic detection algorithms. 01/07/2008. ISBN 978-90-423-0345-4
Type of production: Book chapter **Format:** Book
Position of signature: 3
- 188** Fernandez-Getino Garcia, M. Julia; Luis Rojo-Alvarez, Jose; Gil-Jimenez, Victor P.; Alonso-Atienza, Felipe; Garcia-Armada, Ana. A Complex Support Vector Machine Approach to OFDM Coherent Demodulation. KERNEL METHODS IN BIOENGINEERING, SIGNAL AND IMAGE PROCESSING. pp. 179 - 202. IDEA GROUP PUBLISHING, 01/01/2007. ISBN 978-1-59904-044-8
Type of production: Book chapter **Format:** Book
Source of citations: WOS **Citations:** 0
- 189** Luis Rojo-Alvarez, Jose; Martinez-Ramon, Manel; Camps-Valls, Gustavo; Martinez-Cruz, Carlos E.; Figuera, Carlos. Discrete Time Signal Processing Framework with Support Vector Machines. KERNEL METHODS IN BIOENGINEERING, SIGNAL AND IMAGE PROCESSING. pp. 150 - 178. IDEA GROUP PUBLISHING, 01/01/2007. ISBN 978-1-59904-044-8
Type of production: Book chapter **Format:** Book
Source of citations: WOS **Citations:** 0
- 190** Gustavo Camps Valls; Manel Martínez Ramón; José Luis Rojo Alvarez. Encyclopedia of Data Warehousing and Mining 2nd Edition. An Introduction to Kernel Methods. IDEA GROUP Inc, 01/01/2007. ISBN 1591405572
Type of production: Book chapter **Format:** Book
Position of signature: 3
- 191** Camps-Valls, Gustavo; Luis Rojo-Alvarez, Jose; Martinez-Ramon, Manel. Kernel Methods in Bioengineering, Signal and Image Processing Preface. KERNEL METHODS IN BIOENGINEERING, SIGNAL AND IMAGE PROCESSING. pp. VIII - XII. IDEA GROUP PUBLISHING, 01/01/2007. ISBN 978-1-59904-044-8
Type of production: Book chapter **Format:** Book
Source of citations: WOS **Citations:** 0
- 192** José Luis Rojo Alvarez; Arcadio García Alberola; Antonio Artés; Angel Arenal. Support Vector Machines: Theory and Applications. Tachycardia Discrimination in Implantable Cardioverter Defibrillators Using Support Vector Machines and Bootstrap Resampling. Springer Verlag, 2005. ISBN 3540243887
Type of production: Book chapter **Format:** Book
Position of signature: 1
- 193** Influence of normalization on the analysis of electroanatomical maps with manifold harmonics. 2016.
Type of production: Scientific book or monograph



- 194** Comparison of Infinite Impulse Response (IIR) and Finite Impulse Response (FIR) Filters in Cardiac Optical Mapping Records. 2021.
Type of production: null
- 195** Deep Neural Nets for DOA Estimation with Random Arrays. 2020.
Type of production: null
- 196** Finding Associations among Chronic Conditions by Bootstrap and Multiple Correspondence Analysis. 2020.
Type of production: null
- 197** Bearing Estimation with Randomized Linear Arrays. 2019.
Type of production: null
- 198** Gaussian Process Regression for Array Interpolation. 2019.
Type of production: null
- 199** Cardiac Fibrosis Detection Applying Machine Learning Techniques to Standard 12-Lead ECG. 2018.
Type of production: null
- 200** Kernel DOA estimation in nonuniform arrays. 2018.
Type of production: null
- 201** T-Wave Alternans Analysis with Electrocardiographic Imaging. 2018.
Type of production: null
- 202** A group lasso based method for automatic physiological rhythm analysis. 2017.
Type of production: null
- 203** Analysis of heart rate variability influence on heart rate turbulence using boosted regression trees in heart failure patients. 2017.
Type of production: null
- 204** Automatic system for the analysis of flexion angle of the knee using a probabilistic model. 2017.
Type of production: null
- 205** Effect of different ventricular arrhythmia origin on cardiac sounds variability using m-mode signals representation. 2017.
Type of production: null
- 206** Extended Iris Color Features Analysis and Cluster Headache Diagnosis Based On Support Vector Classifier. 2017.
Type of production: null
- 207** On the use of Multi-class Support Vector Machines for Classification of Seismic Signals at Cotopaxi Volcano. 2017.
Type of production: null



- 208** QRS Fragmentation Index as a New Discriminator for Early Diagnosis of Heart Diseases. 2017.
Type of production: null
- 209** A multicentric study of long-term rhythm patterns in heart rate. 2016.
Type of production: null
- 210** A quantitative analysis on the intracardiac electrogram contact during ventricular tachycardia ablation. 2016.
Type of production: null
- 211** A support vector Laplacian distance Kernel approach to the inverse problem in intracardiac electrophysiology. 2016.
Type of production: null
- 212** An approach to new methods for digital signal processing on optical mapping sequences and electrical mapping. 2016.
Type of production: null
- 213** Auto-cropping of phone camera color images to segment cardiac signals in ECG printouts. 2016.
Type of production: null
- 214** Autocorrelation kernel support vector machines for Doppler ultrasound M-mode images denoising. 2016.
Type of production: null
- 215** Clinical severity of noise in ECG. 2016.
Type of production: null
- 216** Cluster headache diagnosis using iris color features and statistical pixel classification. 2016.
Type of production: null
- 217** Computational efficiency and accuracy for QRS detection algorithms on clinical long term multilead monitoring. 2016.
Type of production: null
- 218** Non-uniform interpolation of Cardiac Navigation maps using support vector machines with autocorrelation kernel. 2016.
Type of production: null
- 219** Prediction of healthcare associated infections in an intensive care unit using machine learning and big data tools. 2016.
Type of production: null
- 220** Big-data analytics for Arrhythmia Classification using data compression and kernel methods. 2015.
Type of production: null
- 221** Effect of interpolation on electroanatomical mapping. 2015.
Type of production: null



- 222** Evolution of the Heart Rate Variability complexity during Kangchenjunga climbing. 2015.
Type of production: null
- 223** Fetal heart rate complexity measures to detect hypoxia. 2015.
Type of production: null
- 224** Heart Rate Turbulence modeling using Boosted Regression Trees. 2015.
Type of production: null
- 225** Spectral analysis of Electroanatomical Maps for spatial bandwidth estimation as support to ablation. 2015.
Type of production: null
- 226** Web application for data exchange and follow-up in Heart Rate Turbulence. 2015.
Type of production: null
- 227** Bootstrap Resampling Feature Selection and Support Vector Machine for Early Detection of Anastomosis Leakage. 2014.
Type of production: null
- 228** Cardiac arrhythmia discrimination using evolutionary computation. 2014.
Type of production: null
- 229** Design and Optimization of an ECG / Holter Hybrid System for Mobile Systems Based on DSPic. 2014.
Type of production: null
- 230** Morphological analysis on single lead contactless ECG monitoring based on a beat-template development. 2014.
Type of production: null
- 231** Performance Evaluation of a Volcano Monitoring System Using Wireless Sensor Networks. 2014.
Type of production: null
- 232** Post Extrasystolic T Wave Change in Subjects With Structural Healthy Ventricles - Measurement and Simulation. 2014.
Type of production: null
- 233** Towards semantic interoperability for cardiovascular risk stratification into the electronic health records using archetypes and SNOMED-CT. 2014.
Type of production: null
- 234** A modified Hilbert-Huang algorithm to assess spectral parameters in intense exercise. 2013.
Type of production: null
- 235** ELab: A web-based platform to perform HRV and HRT analysis and store cardiac signals. 2013.
Type of production: null



- 236** Nonlinear characteristics of ventricular fibrillation depend on myocardial infarction locations. 2013.
Type of production: null
- 237** On the early detection of perinatal hypoxia with information-theory based methods. 2013.
Type of production: null
- 238** Physiological feature analysis in Heart Rate Turbulence using LASSO model. 2013.
Type of production: null
- 239** QRS delineation algorithms comparison and model fine tuning for automatic clinical classification. 2013.
Type of production: null
- 240** Spectral and nonlinear analysis of surgical ventricular fibrillation. 2013.
Type of production: null
- 241** Combination of ECG parameters with support vector machines for the detection of life-threatening arrhythmias. 2012.
Type of production: null
- 242** Estimation of reference indices of left ventricular chamber function from echocardiographic images with multidimensional kernel methods. 2012.
Type of production: null
- 243** Heart Rate Turbulence Modulation with Coupling Interval and Heart. 2012.
Type of production: null
- 244** Heart Rate Variability non linear dynamics in intense exercise. 2012.
Type of production: null
- 245** Quantitative spectral criteria for Cardiac Navigation sampling rate using Manifold Harmonics Analysis. 2012.
Type of production: null
- 246** Early prediction of tilt test outcome, with support vector machine non linear classifier, using ECG, pressure and impedance signals. 2011.
Type of production: null
- 247** Multivariate spatial clustering of traffic accidents for local profiling of risk factors. 2011.
Type of production: null
- 248** Relationship between heart rate turbulence and local physiological variables in heart failure patients. 2011.
Type of production: null
- 249** Usefulness of 7-day Holter monitoring for heart rate variability nonlinear dynamics evaluation. 2011.
Type of production: null



- 250** Automatic location of ventricular arrhythmia using Implantable Defibrillator stored electrograms. 2010.
Type of production: null
- 251** Effect of physiological changes in heart rate Turbulence using a lumped parameter model. 2010.
Type of production: null
- 252** Signal processing subsystem validation for T-Wave Alternans estimation. 2010.
Type of production: null
- 253** A method for assessing the sampling bandwidth for activation time and voltage maps in cardiac navigators. 2009.
Type of production: null
- 254** Cardiac arrhythmia spectral analysis of electrogram signals using fourier organization analysis. 2009.
Type of production: null
- 255** Quality evaluation and effect of time synchronization on the digital recovery of intracardiac electrograms. 2009.
Type of production: null
- 256** Rhythmometric analysis of heart rate variability indices during long term monitoring. 2009.
Type of production: null
- 257** Changes in detrended fluctuation indices with aging in healthy and congestive heart failure subjects. 2008.
Type of production: null
- 258** Characterization of heart rate variability loss with aging and heart failure using sample entropy. 2008.
Type of production: null
- 259** Detection and estimation of T Wave Alternans with matched filter and nonparametric bootstrap test. 2008.
Type of production: null
- 260** Analysing effects of implant dimensions on electrocardiograph: A modeling approach. 2007.
Type of production: null
- 261** Analysis of physiological meaning of detrended fluctuation analysis in heart rate variability using a lumped parameter model. 2007.
Type of production: null
- 262** Comparison of the scope of true and integrated bipolar leads in implantable cardioverter defibrillators. 2007.
Type of production: null
- 263** Contributions of the 12 segments of left ventricular myocardium to the body surface potentials. 2007.
Type of production: null



- 264** Denoising of heart rate variability signals during tilt test using independent component analysis and multidimensional recordings. 2007.
Type of production: null
- 265** Numerical analysis of the resolution of surface electrocardiographic lead systems. 2007.
Type of production: null
- 266** Reconstruction of transmembrane currents using support vector machines and its application to endocardial mapping: A model study. 2007.
Type of production: null
- 267** A new method for single-step robust post-processing of flow color Doppler M-mode images using support vector machines. 2006.
Type of production: null
- 268** Changes in cardiac indices from implanted defibrillator-stored electrograms due to acquisition and preprocessing conditions. 2006.
Type of production: null
- 269** Characterization of aortic input impedance in the supplemental domain. 2005.
Type of production: null
- 270** Noninvasive estimation of maximum elastance from color-Doppler M-mode echocardiograms using support vector machines. 2005.
Type of production: null
- 271** Effect of spatial, temporal, and velocity resolution on doppler tissue image derived indices. 2004.
Type of production: null
- 272** Luis Rojo-Alvarez, Jose. Big and Deep Hype and Hope: On the Special Issue for Deep Learning and Big Data in Healthcare. APPLIED SCIENCES-BASEL. 9 - 20, 01/10/2019. ISSN 2076-3417
Format: Journal
- | | |
|---|---|
| Impact source: ISI | Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY |
| Impact index in year of publication: 2.474 | Journal in the top 25%: No |
| Position of publication: 161 | No. of journals in the cat.: 314 |
| Impact source: ISI | Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY |
| Impact index in year of publication: 2.474 | Journal in the top 25%: No |
| Position of publication: 32 | No. of journals in the cat.: 91 |
| Impact source: ISI | Category: Science Edition - PHYSICS, APPLIED |
| Impact index in year of publication: 2.474 | Journal in the top 25%: No |
| Position of publication: 63 | No. of journals in the cat.: 155 |
| Impact source: ISI | Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY |
| Impact index in year of publication: 2.474 | Journal in the top 25%: No |
| Position of publication: 88 | No. of journals in the cat.: 177 |
| Source of citations: WOS | Citations: 0 |



- 273** Bote-Curiel, Luis; Munoz-Romero, Sergio; Gerrero-Curienes, Alicia; Luis Rojo-Alvarez, Jose. Deep Learning and Big Data in Healthcare: A Double Review for Critical Beginners. APPLIED SCIENCES-BASEL. 9 - 11, 01/06/2019. ISSN 2076-3417
Format: Journal
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 161
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 32
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 63
Impact source: ISI
Impact index in year of publication: 2.474
Position of publication: 88
Source of citations: WOS
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 314
Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 91
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 155
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 177
Citations: 4
- 274** 1. Data Amount Reduction in Mosaic Image Transmission Techniques for Digital Interactive Television Applications. IEEE Access. 2018.
- 275** Gimeno-Blanes, Francisco J.; Blanco-Velasco, Manuel; Barquero-Perez, Oscar; Garcia-Alberola, Arcadi; Rojo-Alvarez, Jose L.. Sudden Cardiac Risk Stratification with Electrocardiographic Indices - A Review on Computational Processing, Technology Transfer, and Scientific Evidence. FRONTIERS IN PHYSIOLOGY. 7, 07/03/2016. ISSN 1664-042X
Format: Journal
Impact source: ISI
Impact index in year of publication: 4.134
Position of publication: 15
Source of citations: WOS
Category: Science Edition - PHYSIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 84
Citations: 20
- 276** Salcedo-Sanz, S.; Rojo-Alvarez, J. L.; Martinez-Ramon, M.; Camps-Valls, G.. Support vector machines in engineering: an overview. WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY. 4 - 3, pp. 234 - 267. 01/05/2014. ISSN 1942-4787, ISSN 1942-4795
Format: Journal
Impact source: ISI
Impact index in year of publication: 1.594
Position of publication: 21
Impact source: ISI
Impact index in year of publication: 1.594
Category: Science Edition - COMPUTER SCIENCE, THEORY & METHODS
Journal in the top 25%: Yes
No. of journals in the cat.: 102
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: No

**Position of publication:** 51**No. of journals in the cat.:** 123**Source of citations:** WOS**Citations:** 62

- 277** Luis Rojo-Alvarez, Jose; Martinez-Ramon, Manel; Munoz-Mari, Jordi; Camps-Valls, Gustavo. A unified SVM framework for signal estimation. DIGITAL SIGNAL PROCESSING. 26, pp. 1 - 20. 01/03/2014. ISSN 1051-2004, ISSN 1095-4333
Format: Journal
Impact source: ISI
Impact index in year of publication: 1.256
Position of publication: 122
Source of citations: WOS
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 249
Citations: 10
- 278** Pastor-Perez, Francisco J.; Manzano-Fernandez, Sergio; Goya-Esteban, Rebeca; Pascual-Figal, Domingo A.; Garrido Bravo, Iris P.; Barquero-Perez, Oscar; Luis Rojo-Alvarez, Jose; Januzzi, James L.; Valdes Chavarri, Mariano; Garcia-Alberola, Arcadio. Heart rate control in chronic heart failure: Resting versus mean heart rate with prolonged ambulatory ECG recording. INTERNATIONAL JOURNAL OF CARDIOLOGY. 170 - 2, pp. E45 - E47. 10/12/2013. ISSN 0167-5273, ISSN 1874-1754
Format: Journal
Impact source: ISI
Impact index in year of publication: 6.175
Position of publication: 11
Source of citations: WOS
Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Journal in the top 25%: Yes
No. of journals in the cat.: 125
Citations: 6
- 279** Almendral, Jesus; Caulier-Cisterna, Raul; Luis Rojo-Alvarez, Jose. Resetting and Entrainment of Reentrant Arrhythmias: Part I: Concepts, Recognition, and Protocol for Evaluation: Surface ECG versus Intracardiac Recordings. PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY. 36 - 4, pp. 508 - 532. 01/04/2013. ISSN 0147-8389, ISSN 1540-8159
Format: Journal
Impact source: ISI
Impact index in year of publication: 1.25
Position of publication: 49
Impact source: ISI
Impact index in year of publication: 1.25
Position of publication: 90
Source of citations: WOS
Category: Science Edition - ENGINEERING, BIOMEDICAL
Journal in the top 25%: No
No. of journals in the cat.: 76
Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Journal in the top 25%: No
No. of journals in the cat.: 125
Citations: 6



Works submitted to national or international conferences

- 1** **Title of the work:** Can Coaching be helpful for beginner engineer students?
Name of the conference: I Congreso internacional de Innovación Docente e Investigación en Educación Superior: Un reto para
City of event: Madrid, España,
Date of event: 2022
JL Rojo-Álvarez; A Martínez Fernández; I Mora Jiménez; L Prieto Alonso; S Prieto Alonso; E Everss. ISBN 978-84-09-16343-4
- 2** **Title of the work:** Diseño de un clasificador interpretable de ruido clínico en ECG de monitorización prolongada mediante autoencoders
Name of the conference: XL Congreso Anual de la Sociedad Española de Ingeniería Biomédica, CASEIB 2022
Date of event: 2022
C Plaza; Holgado-Cuadrado R; JL Rojo-Álvarez; M Blanco-Velasco. "p.419-422, Libro de actas". ISBN 978-84-09-45972-8
- 3** **Title of the work:** On the bipolar electrograms obtained from electrocardiographic imaging
Name of the conference: XXXVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica. CASEIB2018
City of event: Ciudad Real, España,
Date of event: 2022
JL Rojo-Álvarez.
- 4** **Title of the work:** Poniéndose en la piel de los creadores como motor del aprendizaje
Name of the conference: I Congreso internacional de Innovación Docente e Investigación en Educación Superior: Un reto para
City of event: Madrid, España,
Date of event: 2022
S Muñoz-Romero; JL Rojo-Álvarez. ISBN 978-84-09-16343-4
- 5** **Title of the work:** Distribution-Test Estimation and Topic Modeling from Big-Data Analytics from Heterogeneous Hospital Records in Ovarian Cancer
Name of the conference: XVII Conferencia Española y VII Encuentro Iberoamericano de Biometría - CEB-EIB 2019
City of event: Valencia, España,
Date of event: 2021
S Muñoz-Romero; J Garcia-Donas; E Sevillano; L Bote-Curiel; M Yague; N Lainez; EM Guerra; M Garrido; T Garcia-Donas; S Amarillo; P Navarro; S Ruiz; MD Fenor; JF Rodriguez-Moreno; JL Rojo-Álvarez.
- 6** **Title of the work:** P-wave detection using latent spaces from Autoencoders and Domain Description Classifiers
Name of the conference: XXXIX Congreso Anual de la Sociedad Española de Ingeniería Biomédica, CASEIB 2021
Date of event: 2021
C Plaza; M Blanco-Velasco; JL Rojo-Álvarez; S Muñoz-Romero. "p.91-94, Libro de actas". ISBN 978-84-09-36054-3



- 7** **Title of the work:** Prácticas Hospitalarias del Grado de Ingeniería Biomédica y Proyectos de Aplicación Clínica
Name of the conference: II Congreso Virtual de la Sociedad Española de Calidad Asistencial.
City of event: Virtual,
Date of event: 2021
I Polimón; C Soguero; JL Rojo-Álvarez; R García-Carretero; N Franco-Garrobo; N Tarín-Vicente .
- 8** **Title of the work:** Bearing Estimation with Randomized Linear Arrays
Name of the conference: 2019 Trends and Advances in Machine Learning for Applied Electromagnetics EUCAP
City of event: Krakow, Poland,
Date of event: 2019
A Gupta; M Martínez-Ramón; C Christodoulou; JL Rojo-Álvarez.
- 9** **Title of the work:** Detección de fibrosis con electrocardiograma de superficie en pacientes con miocardiopatía hipertrófica
Name of the conference: SEC Sociedad Española de Cardiología
City of event: Barcelona, España,
Date of event: 2019
Melgarejo Meseguer F; Muñoz Esparza C; Salar Alcaraz ME; J Gimeno Blanes; JL Rojo-Álvarez; JR Gimeno Blanes; A García-Alberola.
- 10** **Title of the work:** Cardiac fibrosis detection applying machine learning techniques to standard 12-lead ECG
Name of the conference: Computing in Cardiology
City of event: Maastricht, The Netherlands,
Date of event: 2018
F Melgarejo; FJ Gimeno; JL Rojo-Álvarez; M Salar; JR Gimeno; A García-Alberola. ISSN 2325-887X
- 11** **Title of the work:** Comunidad de Madrid, Ejemplo del Modelo Integrado de Terapia Renal Sustitutiva. Análisis de Riesgos Competitivos
Name of the conference: 51 Congreso Nacional de la Sociedad Española de Nefrología
City of event: Online,
Date of event: 2018
Gil-Casares B; Portoles J; Lopez Paula; F Tornero Molina; Marques M; JL Rojo-Álvarez.
- 12** **Title of the work:** Estimación del Offset temporal en sistemas multiportadora basados en la DCT
Name of the conference: XXXIII Simposium Nacional de la Unión Científica Internacional de Radio. URSI2018
City of event: Granada, España,
Date of event: 2018
F Cruz-Roldán; Piñeiro-Ave; JL Rojo-Álvarez; M Blanco-Velasco.
- 13** **Title of the work:** Kernel DOA Estimation in Nonuniform Arrays
Name of the conference: IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meet
City of event: Boston,
Date of event: 2018
A Gupta; C Christodoulou; M Martínez-Ramón; JL Rojo-Álvarez. ISSN 1840-2308



- 14** **Title of the work:** T-wave alternans analysis with electrocardiographic imaging
Name of the conference: Computing in Cardiology
City of event: Maastricht, The Netherlands,
Date of event: 2018
JL Rojo-Álvarez; R Goya-Esteban; S Muñoz-Romero; A García-Alberola; F Melgarejo; M Blanco-Velasco. ISSN 2325-887X
- 15** **Title of the work:** Variabilidad de la Frecuencia Cardiaca durante el Ascenso al Kanchenjunga: ¿UnParámetro Fiable? Estudio de un Caso
Name of the conference: 1 Congreso Internacional de las montañas, Sierra Nevada 2018
City of event: Granada, España,
Date of event: 2018
E Sarabia-Cachadiña; C Martinez; O Barquero-Pérez; R Goya-Esteban; AJ CaamañoFernández; JL Rojo-Álvarez. "Oral".
- 16** **Title of the work:** (25) On the use of Multi-class Support Vector Machines for Classification of Seismic Signals at Cotopaxi Volcano
Name of the conference: IEEE Int Aut Meeting Power, Electronics and Computing
City of event: Ixtapa, Mexico,
Date of event: 11/2017
R Lara-Cueva; DS Benítez; V Paillacho; M Villalba; JL Rojo-Álvarez. ISSN 2573-0770
- 17** **Title of the work:** (23) Multiscale Entropy and Multiscale Time Irreversibility for Atrial Fibrillation and Heart Failure from 7-Day Holter
Name of the conference: Congreso Anual de la SEIB
City of event: Bilbao, España,
Date of event: 2017
M El-Yaagoubi, R Goya-Esteban,; Jabrane, S Muñoz-Romero, JL Rojo-Álvarez, A García-Alberola . ISBN 84-8498-810-4
- 18** **Title of the work:** (24) Entrainment Model Based on Spatio-temporal Impulse Response and Restitution Properties
Name of the conference: Congreso Anual de la SEIB
City of event: Bilbao, España,
Date of event: 2017
R Caulier-Cisterna; S Muñoz-Romero; A García-Alberola; J Almendral-Garrote; JL Rojo-Álvarez . ISBN 84-8498-810-4
- 19** **Title of the work:** Statistical Analysis of Color Differences on Iris Images for Supporting ClusterHeadache Diagnosis
Name of the conference: SIGMAP 2022, INSTICC, SciTePress
Date of event: 2016
I Mora; Iglesias A; El-Yaagoubi M; Rojo-Alvarez JI; JA Pareja. "p.40-47 Libro de actas". ISBN 978-989-758-591-3
- 20** **Title of the work:** Effect of Interpolation on Electroanatomical Mapping.
Name of the conference: 42nd Computing in Cardiology (CinC)
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Niza, France
Date of event: 06/09/2015
End date: 09/09/2015

**City organizing entity:** Niza, France

Margarita Sanromán Junquera; R Díaz Valencia; Arcadio García Alberola; José Luis Rojo Alvarez; Inmaculada Mora Jiménez. "Computing in Cardiology 2015". 42, pp. 361 - 364. COMPUTING IN CARDIOLOGY, ISBN 978-1-4799-4346-3

- 21 Title of the work:** Spectral Analysis of Electroanatomical Maps for Spatial Bandwidth Estimation as support to ablation.

Name of the conference: Computing in Cardiology (CinC)

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Niza, France

Date of event: 06/09/2015

End date: 09/09/2015

City organizing entity: Niza, France

Margarita Sanromán Junquera; Inmaculada Mora Jiménez; Arcadio García Alberola; José Luis Rojo Alvarez. "Computing in Cardiology 2015". 42, pp. 181 - 184. COMPUTING IN CARDIOLOGY, ISBN 978-1-4799-4346-3

- 22 Title of the work:** Web Application for Data Exchange and Follow up in Heart Rate Turbulence.

Name of the conference: 42nd Computing in Cardiology (CinC)

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Niza, France

Date of event: 06/09/2015

End date: 09/09/2015

City organizing entity: Niza, France

Cristina Soguero Ruiz; A Sánchez Caro; Inmaculada Mora Jiménez; Luis Lechuga Suárez; José Luis Rojo Alvarez. "Computing in Cardiology 2015". 42, pp. 193 - 196. COMPUTING IN CARDIOLOGY, ISBN 978-1-4799-4346-3

- 23 Title of the work:** A Cardiac Web Prototype for Semantic Interoperability and Decision Support

Name of the conference: Scandinavian Health Informatics Conference (SHI)

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Trömsø, Norway

Date of event: 15/06/2015

End date: 16/06/2015

City organizing entity: Trömsø, Norway

Cristina Soguero Ruiz; Inmaculada Mora Jiménez; A Sánchez Cano; Arcadi García Alberola; Luis Lechuga; Francisco Javier Ramos López; José Luis Rojo Alvarez. "Proceedings of the 13th Scandinavian Conference on Health Informatics". pp. 105 - 106. , Linköping Electronic Conference Proceedings, ISBN 978-91-7685-985-8

- 24 Title of the work:** A Fluid Dynamics Model for Wind Turbine Generators in Equatorial Environments

Name of the conference: IEEE 6th International Conference Automation, Robotics and Applications (ICARA)

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Queenstown, New Zealand

Date of event: 17/02/2015

End date: 19/02/2015

City organizing entity: Queenstown, New Zealand



M Fabricio; D Rivas; M Erazo; V Bautista Naranjo; O Galarza Barrionuevo; P Reyes Bedoya; MK Huerta; José Luis Rojo Alvarez. ISBN 1050-4729

- 25** **Title of the work:** Design and Implementation of a Wireless Sensor Network for Rose Greenhouses Monitoring
Name of the conference: IEEE 6th International Conference Automation, Robotics and Applications (ICARA)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Queenstown, New Zealand
Date of event: 17/02/2015
End date: 19/02/2015
City organizing entity: Queenstown, New Zealand
M Erazo; D Rivas; O Galarza Barrionuevo; V Bautista Naranjo; MK Huerta; José Luis Rojo Alvarez. ISBN 1050-4729
- 26** **Title of the work:** Gaussian Process Regression for Array Interpolation
Name of the conference: 2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science
City of event: Atlanta, Georgia,
Date of event: 07/2012
A Gupta; M Martínez-Ramón; JL Rojo-Álvarez; C Christodoulou.
- 27** **Title of the work:** Deal Effect Curve And Promotional Models Using Machine Learning and Bootstrap Resampling Test.
Name of the conference: 1st International Conference on Pattern Recognition Applications and Methods
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Algarve, Portugal
Date of event: 06/02/2012
End date: 08/02/2012
City organizing entity: Algarve, Portugal
Cristina Soguero Ruíz; Francisco Javier Gimeno Blanes; Inmaculada Mora Jiménez; María Pilar Martínez Ruiz; José Luis Rojo Alvarez. "Proceedings of the 1st International Conference on Pattern Recognition Applications and Methods". 2, pp. 537 - 540. ISBN 978-989-8425-99-7
- 28** **Title of the work:** Reconstrucción de cavidades cardíacas en sistemas de navegación cardíaca durante estudios electrofisiológicos
Name of the conference: Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB)
Geographical area: National
Type of participation: Participatory - others
City of event: Leganés, Spain
Date of event: 24/11/2010
End date: 26/11/2010
City organizing entity: Leganés, Community of Madrid, Spain
José Ramón Pérez; Inmaculada Mora Jiménez; Arcadio Garcia Alberola; Margarita Sanromán Junquera; José Luis Rojo Alvarez. "Libro del Actas del XXVIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica". pp. 199 - 201. ISBN 978-84-8058-1
- 29** **Title of the work:** Segmentación del endocardio en imágenes de tomografía axial mediante máquinas de vectores soporte
Name of the conference: Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB).



Geographical area: National

Type of participation: Participatory - oral communication

City of event: Leganés, Spain

Date of event: 24/11/2010

End date: 26/11/2010

City organizing entity: Leganés, Community of Madrid, Spain

Álvaro García; Inmaculada Mora Jiménez; Margarita Sanromán Junquera; Arcadio Garcia Alberola; José Luis Rojo Alvarez. "Libro de Actas del XXVIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica". pp. 99 - 102. ISBN 978-84-8058-1

- 30** **Title of the work:** Heart Rate Turbulence Denoising Benchmarking Using a Lumped Parameter Model
Name of the conference: 37th International Congress on Electrocardiology (ICE 2010)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Lund, Sweden
Date of event: 03/05/2010
End date: 05/05/2010
City organizing entity: Lund, Sweden
Óscar Barquero Pérez; Inmaculada Mora Jiménez; Carlos Miguel Figuera Pozuelo; Rebeca Goya Esteban; Juan José Vinagre Díaz; Arcadio Garcia Alberola; José Luis Rojo Alvarez. "Abstracts - Journal of Electrocardiology". 44, pp. 6 - 7. Available on-line at: <10.1016/j.jelectrocard.2010.12.022>. ISBN 0022-0736
- 31** **Title of the work:** Deep Neural Nets for DOA Estimation with Random Arrays.
Name of the conference: 2020 IEEE International Symposium on Antennas and Propagation and North American Radio Scien
City of event: Montreal, Canada,
Date of event: 05/2010
A Gupta; C Christodoulou; M Martínez-Ramón; JL Rojo-Álvarez.
- 32** **Title of the work:** Finding Associations among Chronic Conditions by Bootstrap and MultipleCorrespondence Analysis.
Name of the conference: 2020 IEEE International Conference on Bioinformatics and Biomedicine
City of event: Montreal, Canada,
Date of event: 05/2010
C Soguero; N Alonso; Sergio Muñoz; JL Rojo-Álvarez; M Rubio; I Caballero; I Mora. "S12205".
- 33** **Title of the work:** Recovering the Location, Size, and Grade of Cardiac Ischemia Using Level Set Methods
Name of the conference: SIAM Conference on Image Science
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Chicago, United States of America
Date of event: 13/04/2010
End date: 13/04/2010
City organizing entity: Chicago, United States of America
Diego Álvarez; Felipe Alonso Atienza; José Luis Rojo Alvarez; Miguel Moscoso.
- 34** **Title of the work:** Simulación, montaje y caracterización de un sistema básico de comunicaciones por línea
Name of the conference: I Encuentro de Intercambio de Experiencias en Innovación Docente en la URJC
Geographical area: Others
Type of participation: Participatory - oral communication
City of event: Spain



Date of event: 24/06/2009

End date: 25/06/2009

City organizing entity: Spain

Inmaculada Mora Jiménez; David Gutiérrez Pérez; Francisco Javier Atero Gómez; José Luis Rojo Alvarez. "I Encuentro de Intercambio de Experiencias en Innovación Docente en la URJC". 1, pp. 247 - 268. ISBN 978-84-692-6552-9

35 Title of the work: Fundamental Frequency and Regularity of Cardiac Electrograms with Fourier Organization Analysis

Name of the conference: 34th Annual ISCE Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

City of event: Florida, United States of America

Date of event: 04/2009

End date: 30/04/2009

City organizing entity: Florida, United States of America

José Luis Rojo Alvarez; Óscar Barquero Pérez; Rebeca Goya Esteban; Felipe Alonso Atienza; Jesús Requena Carrión; Juan José Sanchez Muñoz; Arcadio García Alberola.

36 Title of the work: Efectos de la Edad Sobre la Estructura Fractal de la Variabilidad de la Frecuencia Cardíaca

Name of the conference: 26th Congreso Anual de la Sociedad Española de Ingeniería Biomédica

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Valladolid, Spain

Date of event: 10/2008

End date: 31/10/2008

City organizing entity: Valladolid, Spain

José Luis Rojo Alvarez; Óscar Barquero Pérez; Rebeca Goya Esteban; JOAQUIM MARQUES DE SA.

37 Title of the work: Estudio del Efecto del Umbral en la Entropía Muestral: Aplicación a la Variabilidad de Frecuencia Cardíaca

Name of the conference: 26th Congreso Anual de la Sociedad Española de Ingeniería Biomédica

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Valladolid, Spain

Date of event: 10/2008

End date: 31/10/2008

City organizing entity: Valladolid, Spain

José Luis Rojo Alvarez; Óscar Barquero Pérez; Rebeca Goya Esteban; JOAQUIM MARQUES DE SA.

38 Title of the work: Detection and Estimation of T Wave Alternans with Matched Filter and Nonparametric Bootstrap Test

Name of the conference: 35th Annual Computers in Cardiology

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Bologna, Italy

Date of event: 14/09/2008

End date: 17/09/2008

City organizing entity: Bologna, Italy



José Luis Rojo Alvarez; Óscar Barquero Pérez; Inmaculada Mora Jiménez; Rebeca Goya Esteban; Javier Gimeno Blanes; Arcadi García Alberola. "Proceedings of Computers in Cardiology, 2008". pp. 617 - 620. Available on-line at: <10.1109/CIC.2008.4749117>. ISBN 978-1-4244-3706-1

- 39** **Title of the work:** Characterization of Heart Rate Variability Loss with Aging and Heart Failure Using Sample Entropy
Name of the conference: 35th Computers in Cardiology
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Bologna, Italy
Date of event: 09/2008
End date: 30/09/2008
City organizing entity: Bologna, Italy
José Luis Rojo Alvarez; Óscar Barquero Pérez; Rebeca Goya Esteban.
- 40** **Title of the work:** Fragmented Electrical Signal in Ventricular Fibrillation: An Indicator of the Activation Sequence in Human Ventricles
Name of the conference: Cardioslim
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Niza, Italy
Date of event: 06/2008
End date: 30/06/2008
City organizing entity: Niza, Italy
José Luis Rojo Alvarez; Juan José Sanchez Muñoz; Arcadio García Alberola; Juan Antonio Fernández del Pozo de Salamanca; Mariano Valdés.
- 41** **Title of the work:** Analysing Transitions in the Integrated Model of Renal Replacement Therapy in a Regional Health System
Name of the conference: 2021 58th ERA-EDTA Congress. German Society of Nephrology
City of event: Berlín, Alemania,
Date of event: 05/2008
B Gil-Casares; J Portoles; P Lopez; F Tornero JL Rojo-Álvarez. "MO813".
- 42** **Title of the work:** Señales Eléctricas Cardíacas. Filtraje y Amplificación. Registros Analógicos y Digitales
Name of the conference: Magíster Universitario en Electrofisiología Cardíaca Diagnóstica y Terapéutica de la Universidad Complutense de Madrid
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 02/2008
End date: 29/02/2008
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez.
- 43** **Title of the work:** Relationship between 12-lead-electrocardiograms and electrograms stored in implantable cardioverter defibrillator
Name of the conference: XIII World Congress on Cardiac Pacing and Electrophysiology
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Roma, Italy
Date of event: 02/12/2007



End date: 06/12/2007

City organizing entity: Roma, Italy

LORETO CASTILLA; JESUS ALMENDRAL; FELIPE ATIENZA; José Luis Rojo Alvarez; Estrella Alberta Everss Villalba.

- 44** **Title of the work:** Relación entre el electrocardiograma y el electrograma del desfibrilador automático
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 10/2007
End date: 31/10/2007
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez; Felipe Alonso Atienza; Estrella Alberta Everss Villalba; JESUS ALMENDRAL; Angel Arenal; Mercedes Ortiz.
- 45** **Title of the work:** Relación entre electrograma del DAI y zona de origen de impulsos en ventrículo izquierdo
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 10/2007
End date: 31/10/2007
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez; Felipe Alonso Atienza; Estrella Alberta Everss Villalba; JESUS ALMENDRAL; F Fernández Avilés; Angel Arenal.
- 46** **Title of the work:** Analysing Effects of Implant Dimensions on Electrocardiograph: A Modeling Approach
Name of the conference: 34th Annual Conference on Computers in Cardiology
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Durham. North Carolina., United States of America
Date of event: 30/09/2007
End date: 03/10/2007
City organizing entity: Durham. North Carolina., United States of America
José Luis Rojo Alvarez. pp. 41 - 44. ISBN 0-7803-7267-0
- 47** **Title of the work:** Analysis of Physiological Meaning of Detrended Fluctuation Analysis in Heart Rate Variability Using a Lumped Parameter Model
Name of the conference: 34th Computers in Cardiology
Geographical area: Non EU International
Type of participation: Participatory - poster
City of event: Durham (North Carolina), United States of America
Date of event: 30/09/2007
End date: 03/10/2007
City organizing entity: Durham (North Carolina), United States of America
José Luis Rojo Alvarez; A Sánchez Sánchez; Óscar Barquero Pérez; Rebeca Goya Esteban; Estrella Alberta Everss Villalba; Inmaculada Mora Jiménez; Arcadio García Alberola. "Proceedings of Computers in Cardiology, 2007". pp. 25 - 28. Available on-line at: <10.1109/CIC.2007.4745412>. ISBN 978-1-4244-2533-4
- 48** **Title of the work:** Denoising of Heart Rate Variability Signals during Tilt Test Using Independent Component Analysis and Multidimensional Recordings
Name of the conference: 34th Annual Conference on Computers in Cardiology
Geographical area: Non EU International



Type of participation: Participatory - oral communication

City of event: Durham, United States of America

Date of event: 30/09/2007

End date: 03/10/2007

City organizing entity: Durham, United States of America

José Luis Rojo Alvarez; Jesús Requena Carrión; Estrella Alberta Everss Villalba; Felipe Alonso Atienza; Arcadio García Alberola. pp. 399 - 402. ISBN 978-1-4244-2533-4

49 Title of the work: Reconstruction of Transmembrane Currents Using Support Vector Machines and Its Application to Endocardial Mapping: A Model Study.

Name of the conference: 34th Computers in Cardiology

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Durham. North Carolina, United States of America

Date of event: 30/09/2007

End date: 03/10/2007

City organizing entity: Durham. North Carolina, United States of America

Felipe Alonso Atienza; José Luis Rojo Alvarez; DIEGO ALVAREZ; MIGUEL MOSCOSO; Arcadio García Alberola. pp. 121 - 124. IEEE, ISBN 978-1-4244-2533-4

50 Title of the work: Estimation of the Scope of Transvenous Lead Systems in Implantable Cardioverter Defibrillators.

Name of the conference: 29th IEEE EMBS Annual International Conference.

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Lyon, France

Date of event: 23/08/2007

End date: 26/08/2007

City organizing entity: Lyon, France

Jesús Requena Carrión; JUHO VAISANEN; Felipe Alonso Atienza; José Luis Rojo Alvarez; J HYTTINEN; Arcadio García Alberola.

51 Title of the work: Spatiotemporal Properties of Atrial Fibrillation Rotor Drivers Are Reflected in the Peripheral Frequency Spectra

Name of the conference: Heart Rhythm 2007

Geographical area: Non EU International

Type of participation: Participatory - poster

City of event: DENVER, United States of America

Date of event: 05/2007

End date: 31/05/2007

City organizing entity: DENVER, United States of America

S Zlochiver; José Luis Rojo Alvarez; S Pandit; JOSE JALIFE; OMER BERENFELD.

52 Title of the work: Analysis of the Scope of Unipolar and Bipolar Electrograms in Implantable Cardioverter Defibrillators.

Name of the conference: International Society for Computerized Electrocardiology Meeting Proceedings. ISCE2007

Geographical area: Non EU International

Type of participation: Participatory - poster

City of event: Cancún, Mexico

Date of event: 04/2007

End date: 30/04/2007



City organizing entity: Cancún, Mexico

Jesús Requena Carrión; JUHO VAISANEN; J HYTTINEN; José Luis Rojo Alvarez; Felipe Alonso Atienza; J MALMIVUO.

- 53** **Title of the work:** Estimating Heart Rate Turbulence from a Single Ectopic Beat with Robust Processing
Name of the conference: International Society for Computerized Electrocardiology Meeting Proceedings. ISCE2007
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Cancún, Mexico
Date of event: 04/2007
End date: 30/04/2007
City organizing entity: Cancún, Mexico
Óscar Barquero Pérez; José Luis Rojo Alvarez; Estrella Alberta Everss Villalba; Ana Belén Rodríguez González; Arcadio García Alberola.
- 54** **Title of the work:** A New Method for Single-Step Robust Post-Processing of Flow Color Doppler M Mode Images Using Support Vector Machines
Name of the conference: 33nd IEEE Computers in Cardiology
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 09/2006
End date: 30/09/2006
City organizing entity: Valencia, Spain
José Luis Rojo Alvarez. ISBN 0-7803-7267-0
- 55** **Title of the work:** Changes in Cardiac Indices from Implanted Defibrillator-Stored Electrograms Due to Acquisition and Preprocessing Conditions
Name of the conference: 33nd IEEE Computers in Cardiology
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 09/2006
End date: 30/09/2006
City organizing entity: Valencia, Spain
José Luis Rojo Alvarez. ISBN 0-7803-7267-0
- 56** **Title of the work:** Spectral analysis of ventricular fibrillation from the right and left ventricles in humans.
Name of the conference: 15th World Congress in Cardiac Electrophysiology and Cardiac Techniques. Cardiosim06.
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Niza, Italy
Date of event: 06/2006
End date: 30/06/2006
City organizing entity: Niza, Italy
José Luis Rojo Alvarez. ISBN 1099-5129



- 57** **Title of the work:** DeltaKPQ mutation in LQT3 results in increased frequency and stability of reentry.
Name of the conference: Heart Rhythm
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 05/2006
End date: 31/05/2006
City organizing entity: Boston, United States of America
José Luis Rojo Alvarez.
- 58** **Title of the work:** Multifractal Spectrum Analysis of Long-Term Monitoring in Cardiac Signals
Name of the conference: ICBE2018. The First International Conference on Biomedical Engineering
City of event: Marrakech, Morocco,
Date of event: 05/2006
M El-Yaagoubi,R Goya-Esteban,; Jabrane, S Muñoz-Romero, JL Rojo-Álvarez, A García-Alberola .
- 59** **Title of the work:** Bootstrap Feature Selection in Support Vector Machines for Ventricular Fibrillation Detection
Name of the conference: 14th European Symposium on Artificial Neural Networks (ESANN)
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Bruges, Belgium
Date of event: 26/04/2006
End date: 28/04/2006
City organizing entity: Bruges, Belgium
Felipe Alonso Atienza; José Luis Rojo Alvarez; Gustavo Camps Valls; Alfredo Rosado Muñoz; Arcadi García Alberola. "ESANN'2006 proceedings". pp. 233 - 238. ISBN 2-930307-06-4
- 60** **Title of the work:** SVM semiparametric regression to estimate asymmetric and neighbourhood cross-price effects.
Name of the conference: Thought Leaders International Conference on Brand Management
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Birmingham, United Kingdom
Date of event: 03/2006
End date: 31/03/2006
City organizing entity: Birmingham, United Kingdom
José Luis Rojo Alvarez.
- 61** **Title of the work:** La conveniencia de la utilización de descuentos de precio promocionales bajo una estrategia HI-LO: análisis mediante regresión semiparamétrica SVM.
Name of the conference: 5th International Marketing Trends Congress
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Venecia, Italy
Date of event: 01/2006
End date: 31/01/2006
City organizing entity: Venecia, Italy
José Luis Rojo Alvarez.



- 62** **Title of the work:** Identificación de artefactos en registros multidimensionales de parámetros hemodinámicos mediante análisis de componentes independientes
Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB)
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 11/2005
End date: 30/11/2005
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez; Estrella Alberta Everss Villalba; Felipe Alonso Atienza; Arcadio García Alberola; Francisco-Javier González Serrano; Jesús Requena Carrión.
- 63** **Title of the work:** Selección de características en máquinas de vectores soporte para la discriminación automática de fibrilación ventricular
Name of the conference: XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica (CASEIB)
Geographical area: National
Type of participation: 'Participatory - poster
City of event: Madrid, Spain
Date of event: 11/2005
End date: 30/11/2005
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez; Felipe Alonso Atienza; Gustavo Camps Valls.
- 64** **Title of the work:** Mechanisms of impaired left ventricular filling in patients with dilated cardiomyopathy: new insights provided by color-Doppler pressure gradient imaging
Name of the conference: Scientific Sessions of the American College of Cardiology
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Florida, United States of America
Date of event: 03/2005
End date: 31/03/2005
City organizing entity: Florida, United States of America
Raquel Yotti; Javier Bermejo; Cristina Cortina; JC Antoranz; Mar Desco; José Luis Rojo Alvarez; C Allue; Mar Moreno; MA García.
- 65** **Title of the work:** Doppler-derived intraventricular mapping of early diastolic apical suction pressure gradients
Name of the conference: EuroEcho 8
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Atenas, Greece
Date of event: 12/2004
End date: 31/12/2004
City organizing entity: Atenas, Greece
Raquel Yotti; Javier Bermejo; Cristina Cortina; JC Antoranz; José Luis Rojo Alvarez; Mar Desco; C Allue; Mar Moreno; MA García.
- 66** **Title of the work:** Load-dependence of Doppler-derived ejection intraventricular pressure gradients
Name of the conference: EuroEcho 8
Geographical area: Non EU International



Type of participation: 'Participatory - poster

City of event: Atenas, Greece

Date of event: 12/2004

End date: 31/12/2004

City organizing entity: Atenas, Greece

Raquel Yotti; Javier Bermejo; Mar Desco; JC Antoranz; Cristina Cortina; Roberto Hugo Rodríguez Abella; José Luis Rojo Alvarez; MA García.

67 Title of the work: Evaluación de un Método no Invasivo de Obtención de los Gradientes Intracardiacos

Name of the conference: XXII Congreso Anual de la Sociedad Española de Ingeniería Biomédica

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Santiago de Compostela, Spain

Date of event: 11/2004

End date: 30/11/2004

City organizing entity: Santiago de Compostela, Spain

José Luis Rojo Alvarez; Raquel Yotti; Javier Bermejo; Mar Desco; JC Antoranz; Cristina Cortina; C Allue; Mar Moreno; MA García.

68 Title of the work: Caracterización no invasiva de la contractilidad miocárdica mediante el análisis de los gradientes de presión intraventricular derivados de imágenes de Doppler-color

Name of the conference: SEC 2004. El Congreso de las Enfermedades Cardiovasculares

Geographical area: National

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 10/2004

End date: 31/10/2004

City organizing entity: Madrid, Spain

José Luis Rojo Alvarez; Raquel Yotti; Javier Bermejo; Mar Desco; Cristina Cortina; JC Antoranz; Mar Moreno; MA García.

69 Title of the work: Comportamiento del Volumen Eyeectivo Antes del Síncope Inducido por Nitroglicerina Durante la Prueba de Basculación

Name of the conference: SEC 2004.El Congreso de las Enfermedades Cardiovasculares

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Madrid, Spain

Date of event: 10/2004

End date: 31/10/2004

City organizing entity: Madrid, Spain

Arcadio García Alberola; Francisco Javier Lacunza; José Luis Rojo Alvarez; Juan José Sanchez Muñoz; Estrella Alberta Everss Villalba.

70 Title of the work: Dependencia de la precarga y postcarga de los gradientes de presión intraventricular sistólicos medidos mediante ecocardiografía Doppler

Name of the conference: SEC 2004. El Congreso de las Enfermedades Cardiovasculares

Geographical area: National

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 10/2004

End date: 31/10/2004

City organizing entity: Madrid, Spain



José Luis Rojo Alvarez; Raquel Yotti; Javier Bermejo; Mar Desco; Cristina Cortina; Roberto Hugo Rodríguez Abella; MA García.

- 71** **Title of the work:** Estimación de los Cambios Autonómicos en el Momento del Síncope Vasovagal
Name of the conference: SEC 2004. El Congreso de las Enfermedades Cardiovasculares
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 10/2004
End date: 31/10/2004
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez; Arcadio García Alberola; Francisco Javier Lacunza; Jesús Requena Carrión; Estrella Alberta Everss Villalba.
- 72** **Title of the work:** Reproducción de Rotores Mediante Modelos Basados en las Propiedades de Restitución
Name of the conference: SEC 2004. El Congreso de las Enfermedades Cardiovasculares
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 10/2004
End date: 31/10/2004
City organizing entity: Madrid, Spain
Jesús Requena Carrión; Felipe Alonso Atienza; José Luis Rojo Alvarez; Arcadio García Alberola; Mariano Valdés.
- 73** **Title of the work:** El impacto de la magnitud del descuento relativo y del día de la semana en el incremento promocional de las ventas: aplicación de un enfoque de regresión semiparamétrico SVM
Name of the conference: XVI Encuentro de profesores Universitarios de Marketing
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Alicante, Spain
Date of event: 09/2004
End date: 30/09/2004
City organizing entity: Alicante, Spain
José Luis Rojo Alvarez; MA Gomez; MP Martinez; A Molla.
- 74** **Title of the work:** Semiparametric Support Vector Machines to Analyze Temporary Price Deals
Name of the conference: Marketing Science Conference 2004
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Róterdam, Holland
Date of event: 07/2004
End date: 31/07/2004
City organizing entity: Róterdam, Holland
MP Martinez; MA Gomez; A Molla; José Luis Rojo Alvarez.
- 75** **Title of the work:** The Impact of 9-ending Promotional Prices on the Incremental Sales Volume: an Empirical Analysis with Semiparametric Regression
Name of the conference: European Institute of Retailing and Services Studies (EIRASS)
Geographical area: Non EU International
Type of participation: Participatory - oral communication



City of event: Praga, Czech Republic
Date of event: 07/2004
End date: 31/07/2004
City organizing entity: Praga, Czech Republic
MP Martinez; MA Gomez; A Molla; José Luis Rojo Alvarez.

76 Title of the work: Noninvasive Assessment of Ventricular Relaxation and Contractility Indexes by Analysis of Intraventricular Ejection Pressure-Gradient Curves Derived From Doppler Echocardiography
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Chicago, United States of America
Date of event: 04/2003
End date: 30/04/2003
City organizing entity: Chicago, United States of America
José Luis Rojo Alvarez; Raquel Yotti; JC Antoranz; J Silva; C Allue; Mar Moreno; MA García.

77 Title of the work: Estimación Paramétrica de la Impedancia de Entrada Arterial: Alcance y Limitaciones
Name of the conference: XX Congreso Anual de la Sociedad Española de Ingeniería Biomédica
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Zaragoza, Spain
Date of event: 11/2002
End date: 30/11/2002
City organizing entity: Zaragoza, Spain
Jerónimo Arenas García; José Luis Rojo Alvarez; Raquel Yotti; JC Antoranz; MA García; Javier Bermejo.

78 Title of the work: Genetic programming for cardiac arrhythmia Discrimination
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Leganés, Spain
Date of event: 10/2002
End date: 31/10/2002
City organizing entity: Leganés, Spain
José Luis Rojo Alvarez.

79 Title of the work: Support Vector Algorithms for Non-parametric Spectral Analysis
Name of the conference: International Conference on Artificial Neural Networks
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 08/2002
End date: 31/08/2002
City organizing entity: Madrid, Spain
José Luis Rojo Alvarez; Arcadio García Alberola; Manel Martínez Ramón; Mariano Valdés; Anibal Ramon Figueiras; Antonio Artés.

80 Title of the work: Non-Invasive of Ejection Left-Ventricular Longitudinal Impedance by Image Postprocessing of Color-Doppler M-mode Echocardiograms
Name of the conference: American Heart Association Scientific Sessions 2001
Geographical area: Non EU International
Type of participation: Participatory - oral communication



City of event: Anaheim, United States of America
Date of event: 11/2001
End date: 30/11/2001
City organizing entity: Anaheim, United States of America
José Luis Rojo Alvarez; Javier Bermejo; Raquel Yotti; C Allue; JC Antoranz.

- 81** **Title of the work:** The Dicrotic Notch and not the Ventricular-Aortic Pressure CrossoverAccounts for the End of Ejection in Aortic Valve Stenosis. Implications for the Invasive Assessment of Severity
Name of the conference: American Heart Association Scientific Sessions 2001
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Anaheim, United States of America
Date of event: 11/2001
End date: 30/11/2001
City organizing entity: Anaheim, United States of America
José Luis Rojo Alvarez; Javier Bermejo; I Burwash; JC Antoranz; Catherine Otto.
- 82** **Title of the work:** Effects of Three Different Interpolation Methods on the Estimation of the Frequency Domain Indexes of Heart Rate Variability
Name of the conference: XXIII Congress of the European Society of Cardiology
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Estocolmo, Sweden
Date of event: 09/2001
End date: 30/09/2001
City organizing entity: Estocolmo, Sweden
José Luis Rojo Alvarez; Arcadio García Alberola; Antonio Artés; Juan José Sanchez Muñoz; Juan Martinez Sánchez; JAVIER GIMENO; Julian Lacunza Ruiz; Mariano Valdés.
- 83** **Title of the work:** Non-invasive Assessment of Ejection Left Ventricular Longitudinal Impedance by Image Postprocessing of Color-Doppler M-mode Echocardiograms
Name of the conference: XXIII Congress of the European Society of Cardiology
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Estocolmo, Sweden
Date of event: 09/2001
End date: 30/09/2001
City organizing entity: Estocolmo, Sweden
José Luis Rojo Alvarez; Javier Bermejo; Raquel Yotti; JC Antoranz.
- 84** **Title of the work:** Selection of the free parameters in the Support Vector Method Using Bootstrap Resampling
Name of the conference: Learning 2000
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Leganés, Spain
Date of event: 11/2000
End date: 30/11/2000
City organizing entity: Leganés, Spain
José Luis Rojo Alvarez; Antonio Artés.



- 85** **Title of the work:** Unsteady Flow-Dynamics in Aortic Valve Stenosis: An In-Vivo Análisis of the Transvalvular Pressure Difference-Flow Relation During Ejection
Name of the conference: 73 American Heart Association Congress
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Atlanta, United States of America
Date of event: 11/2000
End date: 30/11/2000
City organizing entity: Atlanta, United States of America
José Luis Rojo Alvarez; Javier Bermejo; JC Antoranz; I Burwash; Catherine Otto; Mar Moreno.
- 86** **Title of the work:** Discrimination Between Ventricular and Wide QRS Supraventricular Tachycardia in Implantable Defibrillator
Name of the conference: XIth World Symposium on Cardiac Pacing and Electrophysiology
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Berlín, Germany
Date of event: 06/2000
End date: 30/06/2000
City organizing entity: Berlín, Germany
José Luis Rojo Alvarez; Angel Arenal; Antonio Artés; Anibal Ramon Figueiras; JESUS ALMENDRAL; J. Villacastín; N.P Castellano; Mercedes Ortiz; Delcan, J.
- 87** **Title of the work:** Análisis Morfológico de la Actividad Eléctrica Ventricular: Alcance y Limitaciones
Name of the conference: International Congress on Bioelectromagnetism: Science, Medicine and Progress
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Alcalá de Henares, Spain
Date of event: 11/1999
End date: 30/11/1999
City organizing entity: Alcalá de Henares, Spain
José Luis Rojo Alvarez; Angel Arenal; F. Pérez Cruz; Antonio Artés.
- 88** **Title of the work:** Comparación Entre Cambios en el QRS inicial, el Criterio de la Anchura y la Correlación de Forma de Onda para la Discriminación entre Taquicardias Supraventriculares y Ventriculares en Desfibriladores
Name of the conference: XXXV Congreso Nacional de la Sociedad Española de Cardiología
Geographical area: National
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 10/1999
End date: 31/10/1999
City organizing entity: Sevilla, Spain
José Luis Rojo Alvarez; Angel Arenal; JESUS ALMENDRAL; J. Villacastín; N.P Castellano; Mercedes Ortiz; Antonio Artés.
- 89** **Title of the work:** A New Training Algorithm for Support Vector Machines
Name of the conference: V Workshop on Emerging Technologies in Telecommunications
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Bayona, Spain



Date of event: 09/1999
End date: 30/09/1999
City organizing entity: Bayona, Spain
F. Pérez Cruz; Angel Navia; José Luis Rojo Alvarez; Antonio Artés.

- 90** **Title of the work:** Probability Density Estimation with Support Vector Method
Name of the conference: Learning'98
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Leganés, Spain
Date of event: 11/1998
End date: 30/11/1998
City organizing entity: Leganés, Spain
José Luis Rojo Alvarez; Antonio Artés; F. Pérez Cruz.
- 91** **Title of the work:** Detector del Inicio de la Activación Ventricular Mediante Vectores Soporte
Name of the conference: XVI Congreso Anual de la Sociedad Española de Ingeniería Biomédica
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 09/1998
End date: 30/09/1998
City organizing entity: Valencia, Spain
José Luis Rojo Alvarez; Angel Arenal; Antonio Artés; Anibal Ramon Figueiras; JESUS ALMENDRAL;
Mercedes Ortiz.
- 92** **Title of the work:** Discrimination Between Ventricular and Supraventricular Tachycardia Based on Implantable Defibrillator Stored Electrogram Analysis
Name of the conference: 47th Congress of the American College of Cardiology
Geographical area: Non EU International
Type of participation: 'Participatory - poster
City of event: Atlanta, Georgia, United States of America
Date of event: 03/1998
End date: 31/03/1998
City organizing entity: Atlanta, Georgia, United States of America
José Luis Rojo Alvarez; Angel Arenal; Anibal Ramon Figueiras; Antonio Artés; JESUS ALMENDRAL.
- 93** **Title of the work:** Discriminación de Arritmias en Desfibriladores Implantables: Redes GMDH y Regularización Bootstrap
Name of the conference: XV Congreso Anual de la Sociedad Española de Ingeniería Biomédica
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 11/1997
End date: 30/11/1997
City organizing entity: Valencia, Spain
José Luis Rojo Alvarez; Angel Arenal; JESUS ALMENDRAL; Antonio Artés; Anibal Ramon Figueiras.
- 94** **Title of the work:** El Éxito Tardío tras la Ablación con Radiofrecuencia de Vías Accesorias Aurículo-Ventriculares se Asocia a una Elevada Incidencia de Recurrencias
Name of the conference: XXXIIV Congreso Nacional de la Sociedad Española de Cardiología



Geographical area: National

Type of participation: Participatory - oral communication

City of event: Granada, Spain

Date of event: 10/1997

End date: 31/10/1997

City organizing entity: Granada, Spain

José Luis Rojo Alvarez; Karen Sanders; J. Villacastín; JESUS ALMENDRAL; Angel Arenal; Mercedes Ortiz; Delcan, J.

95 Title of the work: A Group Lasso Based Method for Automatic Physiological Rhythm Analysis

Name of the conference: 44th Computing in Cardiology Conference (CinC)

City of event: Rennes,

Type of contribution: Scientific paper

Goya-Esteban, Rebeca; Barquero-Perez, Oscar; Figuera-Pozuelo, Carlos; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. "2017 COMPUTING IN CARDIOLOGY (CINC)". En: Computing in Cardiology Conference. 44, 01/01/2017. ISSN 2325-8861, ISSN 2325-887X, ISBN *****

96 Title of the work: A Method for Assessing the Sampling Bandwidth for Activation Time and Voltage Maps in Cardiac Navigators

Name of the conference: 36th Annual Computers in Cardiology Conference (CinC 2009)

City of event: Pk City,

Organising entity: EMB; IEEE; Medtron; CareFus; Biosense Webster; Mortara Instrument; Vitamin Water; Coca-Cola; IBM; GE Healthcare; Forest Pharmaceut Inc; St Jude Med; IOP Publishing; Zoll; Philips Healthcare; SCI - Uni

Type of contribution: Scientific paper

Rojo-Alvarez, J. L.; Saiz, J.; Alonso-Atienza, F.; Ruiz, C. A.; Garcia-Alberola, A. "CINC: 2009 36TH ANNUAL COMPUTERS IN CARDIOLOGY CONFERENCE". En: Computing in Cardiology Series. 36, pp. 229 - +. 01/01/2009. ISSN 0276-6574, ISBN 978-1-4244-7281-9

97 Title of the work: A Modified Hilbert-Huang Algorithm to Assess Spectral Parameters in Intense Exercise

Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)

City of event: Zaragoza,

Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom

Type of contribution: Scientific paper

Goya-Esteban, Rebeca; Barquero-Perez, Oscar; Sarabia-Cachadina, Elena; Naranjo-Orellana, Jose; Rojo-Alvarez, Jose Luis. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 40, pp. 409 - 412. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4

98 Title of the work: A Multicentric Study of Long-term Rhythm Patterns in Heart Rate

Name of the conference: 43rd Computing in Cardiology Conference (CinC)

City of event: Vancouver,

Type of contribution: Scientific paper

Goya-Esteban, Rebeca; Barquero-Perez, Oscar; Alzueta, Javier; Vinolas, Xavier; Basterra, Nuria; Garcia, Enrique; Villacastin, Julian; Fernandez-Lozano, Ignacio; Brugada, Josep; Martinez-Ferrer, Jose B.; Zumalde, Francisco; Martin-Mendez, Maria; Chavarria-Asso, Fernando; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 909 - 912. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7



- 99** **Title of the work:** A Quantitative Analysis on the Intracardiac Electrogram Contact During Ventricular Tachycardia Ablation
Name of the conference: 43rd Computing in Cardiology Conference (CinC)
City of event: Vancouver,
Type of contribution: Scientific paper
Rivas, David; Huerta, Monica; Sanroman-Junquera, Margarita; Jose Sanchez-Munoz, Juan; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 949 - 952. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7
- 100** **Title of the work:** A Support Vector Laplacian Distance Kernel Approach to the Inverse Problem in Intracardiac Electrophysiology
Name of the conference: 14th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON)
City of event: Paphos,
Organising entity: Cyprus Assoc Med Phys & Biomed Engrn; Univ Cyprus; IFMBE; EAMBES; Frederick Univ; European Univ
Type of contribution: Scientific paper
Caulier-Cisterna, R.; Sanroman-Junquera, M.; Rojo-Alvarez, J. L.; Garcia-Alberola, A. "XIV MEDITERRANEAN CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING 2016". En: IFMBE Proceedings. 57, pp. 89 - 94. 01/01/2016. ISSN 1680-0737, ISBN 978-3-319-32701-3, ISBN 978-3-319-32703-7
- 101** **Title of the work:** Action potential alternans in LQT3 syndrome: A simulation study
Name of the conference: 29th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society
City of event: Lyon,
Organising entity: IEEE Engrn Med & Biol Soc
Type of contribution: Scientific paper
Alonso-Atienza, Felipe; Requena-Carrion, Jesus; Rojo-Alvarez, Jose Luis; Berenfeld, Omer; Jalife, Jose. "2007 ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, VOLS 1-16". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. pp. 640 - +. 01/01/2007. ISSN 1094-687X, ISBN 978-1-4244-0787-3
- 102** **Title of the work:** An Approach to New Methods for Digital Signal Processing on Optical Mapping Sequences and Electrical Mapping
Name of the conference: 43rd Computing in Cardiology Conference (CinC)
City of event: Vancouver,
Type of contribution: Scientific paper
Munoz-Romero, Sergio; Sanroman-Junquera, Margarita; Soguero-Ruiz, Cristina; Mora-Jimenez, Inmaculada; Caulier-Cisterna, Raul; Moreno-Planas, Javier; Garcia-Quintanilla, Jorge; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 481 - 484. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7
- 103** **Title of the work:** Analysis of Heart Rate Variability Influence on Heart Rate Turbulence Using Boosted Regression Trees in Heart Failure Patients
Name of the conference: 44th Computing in Cardiology Conference (CinC)
City of event: Rennes,
Type of contribution: Scientific paper



Barquero-Perez, O.; Cantero, S.; Goya-Esteban, R.; Figuera-Pozuelo, C.; Garcia-Alberola, A.; Rojo-Alvarez, J. L. "2017 COMPUTING IN CARDIOLOGY (CINC)". En: Computing in Cardiology Conference. 44, 01/01/2017. ISSN 2325-8861, ISSN 2325-887X, ISBN *****

- 104 Title of the work:** Auto-Cropping of Phone Camera Color Images to Segment Cardiac Signals in ECG Printouts
Name of the conference: 43rd Computing in Cardiology Conference (CinC)
City of event: Vancouver,
Type of contribution: Scientific paper
Lozano-Fernandez, Fernando; Mora-Jimenez, Inmaculada; Sanroman-Junquera, Margarita; Munoz-Romero, Sergio; Garcia-Alberola, Arcadio; Rojo-Alvarez, Jose Luis. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 421 - 424. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7
- 105 Title of the work:** Autocorrelation Kernel Support Vector Machines for Doppler Ultrasound M-Mode Images Denoising
Name of the conference: 43rd Computing in Cardiology Conference (CinC)
City of event: Vancouver,
Type of contribution: Scientific paper
Soguero-Ruiz, Cristina; Guerrero-Curieses, Alicia; Javier Palancar, Francisco; Bermejo, Javier; Carlos Antoranz, Jose; Luis Rojo-Alvarez, Jose. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 469 - 472. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7
- 106 Title of the work:** Automatic Location of Ventricular Arrhythmia using Implantable Defibrillator Stored Electrograms
Name of the conference: 37th Annual Conference of the Computing-in-Cardiology
City of event: Belfast,
Organising entity: Comp Cardiol; EMB; IEEE; Univ Ulster; Medtronic; HeartSine; Drager; GE Healthcare; Mortara; Univ Rochester, Telemetr & Holter ECG Warehouse Project; Zoll; Inst Phys; IBM
Type of contribution: Scientific paper
Sanroman-Junquera, M.; Mora-Jimenez, I.; Almendral, J.; Everss, E.; Caamano-Fernandez, A.; Atienza, F.; Castilla, L.; Rojo-Alvarez, J. L. "COMPUTING IN CARDIOLOGY 2010, VOL 37". En: Computing in Cardiology Conference. 37, pp. 749 - 752. 01/01/2010. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4244-7318-2
- 107 Title of the work:** Bearing Estimation with Randomized Linear Arrays
Name of the conference: 13th European Conference on Antennas and Propagation (EuCAP)
City of event: Krakow,
Type of contribution: Scientific paper
Gupta, Arjun; Martinez-Ramon, Manel; Christodoulou, Christos G.; Luis Rojo-Alvarez, Jose. "2019 13TH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION (EUCAP)". En: Proceedings of the European Conference on Antennas and Propagation. 01/01/2019. ISSN 2164-3342, ISBN 978-8-8907-0188-7
- 108 Title of the work:** Big-Data Analytics for Arrhythmia Classification using Data Compression and Kernel Methods
Name of the conference: 2015 Comp in Cardiol Conference (CinC)
City of event: nice,
Type of contribution: Scientific paper
Lillo-Castellano, J. M.; Mora-Jimenez, I.; Moreno-Gonzalez, R.; Montserrat-Garcia-de-Pablo, M.; Garcia-Alberola, A.; Rojo-Alvarez, J. L. "2015 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En:



Computing in Cardiology Conference. 42, pp. 661 - 664. 01/01/2015. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-5090-0685-4

- 109 Title of the work:** Bootstrap Resampling Feature Selection and Support Vector Machine for Early Detection of Anastomosis Leakage
Name of the conference: IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)
City of event: Valencia,
Organising entity: IEEE; EMBS
Type of contribution: Scientific paper
Soguero-Ruiz, Cristina; Hindberg, Kristian; Luis Rojo-Alvarez, Jose; Skrovseth, Stein Olav; Godtliebsen, Fred; Mortensen, Kim; Revhaug, Arthur; Lindsetmo, Rolv-Ole; Mora-Jimenez, Inma; Augestad, Knut Magne; Jenssen, Robert. "2014 IEEE-EMBS INTERNATIONAL CONFERENCE ON BIOMEDICAL AND HEALTH INFORMATICS (BHI)". pp. 577 - 580. 01/01/2014. ISBN 978-1-4799-2131-7
- 110 Title of the work:** Cardiac Arrhythmia Discrimination Using Evolutionary Computation
Name of the conference: 41st Computing in Cardiology Conference (CinC)
City of event: Cambridge,
Organising entity: Massachusetts Inst Technol; European Soc Cardiol; IEEE EMBS; Mortara; PhysioNet; Philips; Mindray; IBM; Zoll; Mitsubishi Elect; IOP Publishing; IMES; CSAIL; Medtronic; Boston Sci; Samsung; GE
Type of contribution: Scientific paper
Francisco Martin-Garcia, Juan; Mora-Jimenez, Inmaculada; Garcia-Alberola, Arcadio; Luis Rojo-Alvarez, Jose. "2014 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 41". En: Computing in Cardiology Conference. 41, pp. 121 - 124. 01/01/2014. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-4346-3
- 111 Title of the work:** Cardiac Arrhythmia Spectral Analysis of Electrogram Signals Using Fourier Organization Analysis
Name of the conference: 36th Annual Computers in Cardiology Conference (CinC 2009)
City of event: Pk City,
Organising entity: EMB; IEEE; Medtron; CareFus; Biosense Webster; Mortara Instrument; Vitamin Water; Coca-Cola; IBM; GE Healthcare; Forest Pharmaceut Inc; St Jude Med; IOP Publishing; Zoll; Philips Healthcare; SCI - Uni
Type of contribution: Scientific paper
Barquero-Perez, O.; Rojo-Alvarez, J. L.; Requena-Carrion, J.; Alonso-Atienza, F.; Everss, E.; Goya-Esteban, R.; Sanchez-Munoz, J. J.; Garcia-Alberola, A."CINC: 2009 36TH ANNUAL COMPUTERS IN CARDIOLOGY CONFERENCE". En: Computing in Cardiology Series. 36, pp. 333 - +. 01/01/2009. ISSN 0276-6574, ISBN 978-1-4244-7281-9
- 112 Title of the work:** Cardiac Fibrosis Detection Applying Machine Learning Techniques to Standard 12-Lead ECG
Name of the conference: 45th Computing in Cardiology Conference (CinC)
City of event: Maastricht,
Type of contribution: Scientific paper
Melgarejo-Meseguer, F. M.; Gimeno-Blanes, F. J.; Rojo-Alvarez, J. L.; Salar-Alcaraz, M.; Gimeno-Blanes, J. R.; Garcia-Alberola, A."2018 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 45, 01/01/2018. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-7281-0958-9
- 113 Title of the work:** Changes in Detrended Fluctuation Indices with Aging in Healthy and Congestive Heart Failure Subjects
Name of the conference: 35th Annual Conference on Computers in Cardiology
City of event: Bologna,



Type of contribution: Scientific paper

Barquero-Perez, Oscar; de Sa, Joaquim Marques; Rojo-Alvarez, Jose Luis; Goya-Esteban, Rebeca.

"COMPUTERS IN CARDIOLOGY 2008, VOLS 1 AND 2". pp. 45 - +. 01/01/2008. ISBN 978-1-4244-3706-1

114 Title of the work: Characterization of aortic input impedance in the supplemental domain

Name of the conference: 32nd Annual Conference on Computers in Cardiology

City of event: Lyon,

Organising entity: INSERM; INSA; HCL; UCBL; IEEE; European Soc Cardiol; Reg Council Rhone Alpes; French Minist Hlth & Res; French Minist Sante Solidarites; French Minist Delegue Rech

Type of contribution: Scientific paper

Martinez-Cruz, CE; Rojo-Alvarez, JL; Vallejo-Ramos, FJ; Yotti, R; Antoranz, JC; Garcia-Fernandez, MA; Bermejo, J. "Computers in Cardiology 2005, Vol 32". En: COMPUTERS IN CARDIOLOGY. 32, pp. 805 - 808. 01/01/2005. ISSN 0276-6574, ISBN 0-7803-9337-6

115 Title of the work: Clinical Severity of Noise in ECG

Name of the conference: 43rd Computing in Cardiology Conference (CinC)

City of event: Vancouver,

Type of contribution: Scientific paper

Everss-Villalba, Estrella; Melgarejo-Meseguer, Francisco; Javier Gimeno-Blanes, Francisco; Sala-Pla, Salvador; Blanco-Velasco, Manuel; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadio. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 641 - 644. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7

116 Title of the work: Cluster Headache Diagnosis Using Iris Color Features and Statistical Pixel Classification

Name of the conference: 14th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON)

City of event: Paphos,

Organising entity: Cyprus Assoc Med Phys & Biomed Engrn; Univ Cyprus; IFMBE; EAMBES; Frederick Univ; European Univ

Type of contribution: Scientific paper

EI-Yaagoubi, M.; Mora-Jimenez, I.; Rojo-Alvarez, J. L.; Pareja-Grande, J. A. "XIV MEDITERRANEAN CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING 2016". En: IFMBE Proceedings. 57, pp. 414 - 419. 01/01/2016. ISSN 1680-0737, ISBN 978-3-319-32701-3, ISBN 978-3-319-32703-7

117 Title of the work: Combination of ECG Parameters with Support Vector Machines for the Detection of Life-Threatening Arrhythmias

Name of the conference: 39th Conference on Computing in Cardiology

City of event: Krakow,

Organising entity: European Soc Cardiol; EMB; IEEE; PhysioNet; Silvermedia; Mortara; Drager; GE; Aspel; itAm; Physiol Measurement; Zoll; IBM

Type of contribution: Scientific paper

Alonso-Atienza, F.; Morgado, E.; Fernandez-Martinez, L.; Garcia-Alberola, A.; Rojo-Alvarez, J. L. "2012 COMPUTING IN CARDIOLOGY (CINC), VOL 39". En: Computing in Cardiology Conference. 39, pp. 385 - 388. 01/01/2012. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4673-2074-0, ISBN 978-1-4673-2076-4

118 Title of the work: Comparison of the Scope of True and Integrated Bipolar Leads in Implantable Cardioverter Defibrillators

Name of the conference: 34th Annual Conference on Computers in Cardiology

City of event: Durham,

Type of contribution: Scientific paper



Requena-Carrion, J.; Vaisanen, J.; Alonso-Atienza, F.; Rojo-Alvarez, J. L.; Hyttinen, J.; Garcia-Alberola, A. "COMPUTERS IN CARDIOLOGY 2007, VOL 34". En: Computing in Cardiology Series. 34, pp. 233 - +. 01/01/2007. ISSN 0276-6574, ISBN 978-1-4244-2533-4

- 119 Title of the work:** Computational Efficiency and Accuracy for QRS Detection Algorithms on Clinical Long Term Multilead Monitoring
Name of the conference: 43rd Computing in Cardiology Conference (CinC)
City of event: Vancouver,
Type of contribution: Scientific paper
Melgarejo-Meseguer, Francisco-Manuel; Villalba, Estrella Everss; Siroky, Jan; Gimeno-Blanes, Francisco-Javier; Flores-Yepes, Jose-Antonio; Blanco-Velasco, Manuel; Rojo-Alvarez, Jose-Luis; Garcia-Alberola, Arcadi. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 917 - 920. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7
- 120 Title of the work:** Contribution of the left anterior myocardium to the body surface potentials in case of apical ectopic beat
Name of the conference: 29th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society
City of event: Lyon,
Organising entity: IEEE Engn Med & Biol Soc
Type of contribution: Scientific paper
Vaisanen, Juhoo; Requena-Carrion, Jesus; Alonso-Atienza, Felipe; Rojo-alvarez, Jose Luis; Malmivuo, Jaakko; Hyttinen, Jari. "2007 ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, VOLS 1-16". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. pp. 931 - +. 01/01/2007. ISSN 1094-687X, ISBN 978-1-4244-0787-3
- 121 Title of the work:** Contributions of the 12 segments of left ventricular myocardium to the body surface potentials
Name of the conference: 4th International Conference on Functional Imaging and Modeling of the Heart
City of event: Salt Lake City,
Organising entity: IEEE Engn Med & Biol Soc
Type of contribution: Scientific paper
Vaisanen, Juhoo; Requena-Carrion, Jesus; Alonso-Atienza, Felipe; Hyttinen, Jari; Rojo-Alvarez, Jose Luis; Malmivuo, Jaakko. "FUNCTIONAL IMAGING AND MODELING OF THE HEART, PROCEEDINGS". En: Lecture Notes in Computer Science. 4466, pp. 300 - +. 01/01/2007. ISSN 0302-9743, ISBN 978-3-540-72906-8
- 122 Title of the work:** Critical Telecommunication Services Modeling in a Transmission System Power Operator
Name of the conference: 14th IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks
City of event: Pisa,
Organising entity: IEEE
Type of contribution: Scientific paper
Feijoo, Juan R.; Cid-Sueiro, Jesus; Garcia-Lopez, Juan A.; Luis Rojo-Alvarez, Jose. "CAMAD: 2009 IEEE 14TH INTERNATIONAL WORKSHOP ON COMPUTER AIDED MODELING AND DESIGN OF COMMUNICATION LINKS AND NETWORKS". En: IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks. pp. 69 - +. 01/01/2009. ISSN 2378-4865, ISSN 2378-4873, ISBN 978-1-4244-3532-6



- 123 Title of the work:** Deconvolution and causality for 1 : 1 arrhythmia discrimination in dual chamber defibrillator
Name of the conference: 28th Annual Meeting on Computers in Cardiology
City of event: ROTTERDAM,
Organising entity: Univ Hosp Rotterdam, Thoraxctr; European Soc Cardiol; IEEE, Engn Med & Biol Sci
Type of contribution: Scientific paper
Rojo-Alvarez, JL; Atienza, F; Martinez-Alzamora, N; Arenal-Maiz, A; Pineiro-Ave, J; Artes-Rodriguez, A. "COMPUTERS IN CARDIOLOGY 2001, VOL 28". En: COMPUTERS IN CARDIOLOGY. 28, pp. 269 - 272. 01/01/2001. ISSN 0276-6574, ISBN 0-7803-7266-2
- 124 Title of the work:** Design and Optimization of an ECG / Holter Hybrid System for Mobile Systems Based on DSPic
Name of the conference: 41st Computing in Cardiology Conference (CinC)
City of event: Cambridge,
Organising entity: Massachusetts Inst Technol; European Soc Cardiol; IEEE EMBS; Mortara; PhysioNet; Philips; Mindray; IBM; Zoll; Mitsubishi Elect; IOP Publishing; IMES; CSAIL; Medtronic; Boston Sci; Samsung; GE
Type of contribution: Scientific paper
Minos Pineda-Lopez, Flavio; Martinez-Fernandez, Andres; Luis Rojo-Alvarez, Jose; Blanco-Velasc, Manuel. "2014 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 41". En: Computing in Cardiology Conference. 41, pp. 453 - 456. 01/01/2014. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-4346-3
- 125 Title of the work:** Doppler-derived ejection intraventricular pressure gradients provide a reliable assessment of left ventricular Systolic chamber function
Name of the conference: 77th Scientific Meeting of the American-Heart-Association
City of event: New Orleans,
Organising entity: Amer Heart Assoc
Type of contribution: Scientific paper
Yotti, R; Bermejo, J; Desco, MM; Antoranz, JC; Rojo-Alvarez, JL; Cortina, C; Allue, C; Rodriguez-Abella, H; Moreno, M; Garcia-Fernandez, MA. "CIRCULATION". 112 - 12, pp. 1771 - 1779. 20/09/2005. ISSN 0009-7322, ISSN 1524-4539
- 126 Title of the work:** Early Prediction of Tilt Test Outcome, with Support Vector Machine Non Linear Classifier, Using ECG, Pressure and Impedance Signals
Name of the conference: Conference on Computing in Cardiology
City of event: Hangzhou,
Organising entity: European Soc Cardiol; Zhejiang Univ; EMB; IEEE; Drager; Mortara; Philips; Univ Rochester, Telemetr & Holter ECG Warehouse; Physiol Measurement; Mindray; GE Healthcare; Zoll; Edan; GSMA
Type of contribution: Scientific paper
Gimeno-Blanes, Francisco-Javier; Rojo-Alvarez, Jose-Luis; Garcia-Alberola, Arcadi; Gimeno-Blanes, Juan-Ramon; Rodriguez-Martinez, Alberto; Mocci, Andrea; Flores-Yepes, Jose-Antonio. "2011 COMPUTING IN CARDIOLOGY". En: Computing in Cardiology Conference. 38, pp. 101 - 104. 01/01/2011. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4577-0611-0
- 127 Title of the work:** Effect of Different Ventricular Arrhythmia Origin on Cardiac Sounds Variability Using M-mode Signals Representation
Name of the conference: 44th Computing in Cardiology Conference (CinC)
City of event: Rennes,
Type of contribution: Scientific paper
Ortiz-Puente, Raul; Sanroman-Junquera, Margarita; Munoz-Romero, Sergio; Ortiz, Mercedes; Barbero-Puchades, Mariano; Goya-Esteban, Rebeca; Luis Rojo-Alvarez, Jose; Almendral-Garrote,



Jesus. "2017 COMPUTING IN CARDIOLOGY (CINC)". En: Computing in Cardiology Conference. 44, 01/01/2017. ISSN 2325-8861, ISSN 2325-887X, ISBN *****

- 128 Title of the work:** Effect of Physiological Changes in Heart Rate Turbulence Using a Lumped Parameter Model
Name of the conference: 37th Annual Conference of the Computing-in-Cardiology
City of event: Belfast,
Organising entity: Comp Cardiol; EMB; IEEE; Univ Ulster; Medtronic; HeartSine; Drager; GE Healthcare; Mortara; Univ Rochester, Telemetr & Holter ECG Warehouse Project; Zoll; Inst Phys; IBM
Type of contribution: Scientific paper
Barquero-Perez, O.; Mora-Jimenez, I.; Goya-Esteban, R.; Ramiro-Bargueno, J.; Garcia-Alberola, A.; Rojo-Alvarez, J. L. "COMPUTING IN CARDIOLOGY 2010, VOL 37". En: Computing in Cardiology Conference. 37, pp. 241 - 244. 01/01/2010. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4244-7318-2
- 129 Title of the work:** Effect of spatial, temporal, and velocity resolution on Doppler tissue image derived indices
Name of the conference: 31st Annual Scientific Meeting on Computers in Cardiology
City of event: Chicago,
Organising entity: IEEE; Natl Inst Hlth; Evanston NW Healthcare; European Soc Cardiol
Type of contribution: Scientific paper
Rojo-Alvarez, JL; Bermejo, J; Rodrigez-Gonzalez, AB; Yotti, R; Martinez-Fernandez, MA; Garcia-Fernandez, MA; Antoranz, JC. "Computers in Cardiology 2004, Vol 31". En: COMPUTERS IN CARDIOLOGY. 31, pp. 317 - 320. 01/01/2004. ISSN 0276-6574, ISBN 0-7803-8927-1
- 130 Title of the work:** Estimation of Reference Indices of Left Ventricular Chamber Function from Echocardiographic Images with Multidimensional Kernel Methods
Name of the conference: 39th Conference on Computing in Cardiology
City of event: Krakow,
Organising entity: European Soc Cardiol; EMB; IEEE; PhysioNet; Silvermedia; Mortara; Drager; GE; Aspel; itAm; Physiol Measurement; Zoll; IBM
Type of contribution: Scientific paper
Santiago-Mozos, Ricardo; Rojo-Alvarez, Jose Luis; Carlos Antoranz, J.; Rodriguez, Daniel; Desco, Mar; Barrio, Alicia; Benito, Yolanda; Yotti, Raquel; Bermejo, Javier. "2012 COMPUTING IN CARDIOLOGY (CINC), VOL 39". En: Computing in Cardiology Conference. 39, pp. 549 - 552. 01/01/2012. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4673-2074-0, ISBN 978-1-4673-2076-4
- 131 Title of the work:** Estimation of the end of ejection in aortic stenosis - An unreported source of error in the invasive assessment of severity
Name of the conference: Scientific Sessions of the American-Heart-Association
City of event: Anaheim,
Organising entity: Amer Heart Assoc
Type of contribution: Scientific paper
Bermejo, J; Rojo-Alvarez, JL; Antoranz, JC; Abel, M; Burwash, IG; Yotti, R; Moreno, M; Garcia-Fernandez, MA; Lehmann, KG; Otto, CM. "CIRCULATION". 110 - 9, pp. 1114 - 1120. 31/08/2004. ISSN 0009-7322
- 132 Title of the work:** Evaluation of Promotional and Cross-Promotional Effects Using Support Vector Machine Semiparametric Regression
Name of the conference: 4th International Conference on Engineering and Risk Management (ERM)
City of event: Toronto,
Organising entity: RiskChina Res Ctr; RiskLab; Univ Toronto
Type of contribution: Scientific paper



Pilar Martinez-Ruiz, Maria; Luis Rojo-Alvarez, Jose; Javier Gimeno-Blanes, Francisco. "ENGINEERING AND RISK MANAGEMENT". En: Systems Engineering Procedia. 1, pp. 465 - 472. 01/01/2011. ISSN 2211-3819, ISBN *****

- 133 Title of the work:** Evolution of the Heart Rate Variability Complexity during Kangchenjunga Climbing
Name of the conference: 2015 Comp in Cardiol Conference (CinC)
City of event: nice,
Type of contribution: Scientific paper
Barquero-Perez, Oscar; Goya-Esteban, Rebeca; Caamano, Antonio J.; Sarabia-Cachadina, Elena; Martinez-Garcia, Carlos; Luis Rojo-Alvarez, Jose. "2015 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 42, pp. 1033 - 1036. 01/01/2015. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-5090-0685-4
- 134 Title of the work:** Extended Iris Color Features Analysis and Cluster Headache Diagnosis Based On Support Vector Classifier
Name of the conference: Intelligent Systems and Computer Vision (ISCV)
City of event: Fez,
Organising entity: IEEE; Univ Sidi Mohamed ben Abdellah; IEEE Comp Soc; IEEE Morocco Sect
Type of contribution: Scientific paper
El-Yaagoubi, M.; Mora-Jimenez, I.; Rojo-Alvarez, J. L.; Jabrane, Y.; Pareja-Grande, J. A."2017 INTELLIGENT SYSTEMS AND COMPUTER VISION (ISCV)". 01/01/2017. ISBN 978-1-5090-4062-9
- 135 Title of the work:** Fetal Heart Rate Complexity Measures to Detect Hypoxia
Name of the conference: 2015 Comp in Cardiol Conference (CinC)
City of event: nice,
Type of contribution: Scientific paper
Barquero-Perez, Oscar; Goya-Esteban, Rebeca; Caamano, Antonio; Martin-Caballero, Carlos; Rojo-Alvarez, Jose Luis. "2015 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 42, pp. 133 - 136. 01/01/2015. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-5090-0685-4
- 136 Title of the work:** Heart Rate Turbulence Modeling using Boosted Regression Trees
Name of the conference: 2015 Comp in Cardiol Conference (CinC)
City of event: nice,
Type of contribution: Scientific paper
Barquero-Perez, O.; Goya-Esteban, R.; Garcia-Alberola, A.; Rojo-Alvarez, J. L."2015 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 42, pp. 989 - 992. 01/01/2015. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-5090-0685-4
- 137 Title of the work:** Heart Rate Turbulence Modulation with Coupling Interval and Heart
Name of the conference: 39th Conference on Computing in Cardiology
City of event: Krakow,
Organising entity: European Soc Cardiol; EMB; IEEE; PhysioNet; Silvermedia; Mortara; Drager; GE; Aspel; itAm; Physiol Measurement; Zoll; IBM
Type of contribution: Scientific paper
Barquero-Perez, O.; Figuera-Pozuelo, C.; Goya-Esteban, R.; Mora-Jimenez, I.; Rojo-Alvarez, J. L.; Gimeno-Blanes, J.; Garcia-Alberola, A."2012 COMPUTING IN CARDIOLOGY (CINC), VOL 39". En: Computing in Cardiology Conference. 39, pp. 173 - 176. 01/01/2012. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4673-2074-0, ISBN 978-1-4673-2076-4
- 138 Title of the work:** Heart Rate Variability Non Linear Dynamics in Intense Exercise
Name of the conference: 39th Conference on Computing in Cardiology
City of event: Krakow,



Organising entity: European Soc Cardiol; EMB; IEEE; PhysioNet; Silvermedia; Mortara; Drager; GE; Aspel; itAm; Physiol Measurement; Zoll; IBM

Type of contribution: Scientific paper

Goya-Esteban, Rebeca; Barquero-Perez, Oscar; Sarabia-Cachadina, Elena; de la Cruz-Torres, Blanca; Naranjo-Orellana, Jose; Luis Rojo-Alvarez, Jose. "2012 COMPUTING IN CARDIOLOGY (CINC), VOL 39". En: Computing in Cardiology Conference. 39, pp. 177 - 180. 01/01/2012. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4673-2074-0, ISBN 978-1-4673-2076-4

- 139 Title of the work:** Influence of Normalization on the Analysis of Electroanatomical Maps with Manifold Harmonics
Name of the conference: 4th International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO)
City of event: Grenada,
Organising entity: Univ Granada; IEEE Computat Intelligence Soc, Spanish Chapter; BioMed Cent
Type of contribution: Scientific paper
Sanroman-Junquera, Margarita; Mora-Jimenez, Inmaculada; Garcia-Alberola, Arcadio; Caamano-Fernandez, Antonio; Luis Rojo-Alvarez, Jose. "BIOINFORMATICS AND BIOMEDICAL ENGINEERING (IWBBIO 2016)". En: Lecture Notes in Bioinformatics. 9656, pp. 415 - 425. 01/01/2016. ISSN 0302-9743, ISSN 1611-3349, ISBN 978-3-319-31743-4, ISBN 978-3-319-31744-1
- 140 Title of the work:** Kernel DOA estimation in nonuniform arrays
Name of the conference: IEEE-Antennas-and-Propagation-Society International Symposium on Antennas and Propagation / USNC/URSI National Radio Science Meeting
City of event: Boston,
Organising entity: Inst Elect & Elect Engineers Antennas & Propagat Soc; USNC; URSI; Inst Elect & Elect Engineers
Type of contribution: Scientific paper
Gupta, Arjun; Christodoulou, Christos; Martinez-Ramon, Manel; Luis Rojo-Alvarez, Jose. "2018 IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION & USNC/URSI NATIONAL RADIO SCIENCE MEETING". En: IEEE Antennas and Propagation Society International Symposium. pp. 193 - 194. 01/01/2018. ISSN 1522-3965, ISBN 978-1-5386-7102-3
- 141 Title of the work:** Measurement of the transtricuspid pressure gradient by color-Doppler M-mode echocardiography: a new tool for the noninvasive assessment of RV diastolic function
Name of the conference: 79th Annual Scientific Session of the American-Heart-Association
City of event: Chicago,
Organising entity: Amer Heart Assoc
Type of contribution: Scientific paper
Cortina, Cristina; Yotti, Raquel; Desco, Mar; Antoranz, J. Carlos; Rodriguez, Daniel; Rojo-Alvarez, Jose Luis; Bermejo, Javier. "CIRCULATION". 114 - 18, pp. 367 - 367. 31/10/2006. ISSN 0009-7322
- 142 Title of the work:** Morphological Analysis on Single Lead Contactless ECG Monitoring Based on a Beat-Template Development
Name of the conference: 41st Computing in Cardiology Conference (CinC)
City of event: Cambridge,
Organising entity: Massachusetts Inst Technol; European Soc Cardiol; IEEE EMBS; Mortara; PhysioNet; Philips; Mindray; IBM; Zoll; Mitsubishi Elect; IOP Publishing; IMES; CSAIL; Medtronic; Boston Sci; Samsung; GE
Type of contribution: Scientific paper
Hernandez-Ortega, Jesus; Gimeno-Blanes, Francisco-Javier; Rojo-Alvarez, Jose-Luis; Flores-Yepes, Jose-Antonio; Bleda-Tomas, Andres-Lorenzo; Maestre-Ferriz, Rafael; Lopez-Ayala, Jose-Maria; Gimeno-Blanes, Juan-Ramon; Garcia-Alberola, Arcadi. "2014 COMPUTING IN CARDIOLOGY



CONFERENCE (CINC), VOL 41". En: Computing in Cardiology Conference. 41, pp. 369 - 372. 01/01/2014. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-4346-3

- 143 Title of the work:** Multivariate spatial clustering of traffic accidents for local profiling of risk factors
Name of the conference: 14th International IEEE Conference on Intelligent Transportation Systems (ITSC)
City of event: Washington,
Organising entity: IEEE; George Washington Univ (GWU), Sch Engr & Appl Sci; IEEE ITS Soc; Ctr Intelligent Syst Res (CISR); FHWA/NHTSA Natl Crash Anal Ctr (NCAC)
Type of contribution: Scientific paper
Figuera, C.; Lillo, J. M.; Mora-Jimenez, I.; Rojo-Alvarez, J. L.; Caamano, A. J."2011 14TH INTERNATIONAL IEEE CONFERENCE ON INTELLIGENT TRANSPORTATION SYSTEMS (ITSC)". En: IEEE International Conference on Intelligent Transportation Systems-ITSC. pp. 740 - 745. 01/01/2011. ISSN 2153-0009, ISBN 978-1-4577-2197-7
- 144 Title of the work:** Non-invasive assessment of the transtricuspid right ventricular filling pressure gradient
Name of the conference: 27th Congress of the European-Society-of-Cardiology
City of event: Stockholm,
Organising entity: European Soc Cardiol
Type of contribution: Scientific paper
Cortina, C.; Thomas, J. Bermejo; Yotti, R.; Antoranz, J. C.; Desco, M.; Rojo-Alvarez, J. L.; Allue, C.; Garcia-Fernandez, M. A."EUROPEAN HEART JOURNAL". 26, pp. 231 - 232. 01/09/2005. ISSN 0195-668X, ISSN 1522-9645
- 145 Title of the work:** Non-uniform Interpolation of Cardiac Navigation Maps Using Support Vector Machines with Autocorrelation Kernel
Name of the conference: 43rd Computing in Cardiology Conference (CinC)
City of event: Vancouver,
Type of contribution: Scientific paper
Castro-Garcia, Beatriz; Sanroman-Junquera, Margarita; Guerrero-Curiseses, Alicia; Trenor, Beatriz; Garcia-Alberola, Arcadi; Rojo-Alvarez, Jose Luis. "2016 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 43". En: Computing in Cardiology Conference. 43, pp. 941 - 944. 01/01/2016. ISSN 2325-8861, ISBN 978-1-5090-0895-7
- 146 Title of the work:** Noninvasive assessment of the right ventricular filling pressure gradient
Name of the conference: 79th Annual Scientific Session of the American-Heart-Association
City of event: Chicago,
Organising entity: Amer Heart Assoc
Type of contribution: Scientific paper
Cortina, Cristina; Bermejo, Javier; Yotti, Raquel; Desco, M. Mar; Rodriguez-Perez, Daniel; Antoranz, J. Carlos; Rojo-Alvarez, Jose Luis; Garcia, Damien; Garcia-Fernandez, Miguel A.; Fernandez-Aviles, Francisco. "CIRCULATION". 116 - 9, pp. 1015 - 1023. 28/08/2007. ISSN 0009-7322, ISSN 1524-4539
- 147 Title of the work:** Noninvasive assessment of the transtricuspid pressure difference (TTPD) in humans
Name of the conference: 28th Congress of the European-Society-of-Cardiology/World Congress of Cardiology
City of event: Barcelona,
Organising entity: European Soc Cardiol; World Heart Federat
Type of contribution: Scientific paper
Cortina, C.; Alvarez, R. Yotti; Antoranz, J. C.; Desco, M.; Rojo-Alvarez, J. L.; Allue, C.; Fernandez, M. A. Garcia; Bermejo, J."EUROPEAN HEART JOURNAL". 27, pp. 136 - 136. 01/08/2006. ISSN 0195-668X, ISSN 1522-9645



- 148 Title of the work:** Noninvasive estimation of maximum elastance from color-Doppler M-mode echocardiograms using support vector machines
Name of the conference: 32nd Annual Conference on Computers in Cardiology
City of event: Lyon,
Organising entity: INSERM; INSA; HCL; UCBL; IEEE; European Soc Cardiol; Reg Council Rhone Alpes; French Minist Hlth & Res; French Minist Sante Solidarites; French Minist Delegue Rech
Type of contribution: Scientific paper
Rojo-Alvarez, JL; Bermejo, J; Juarez-Caballero, VM; Yotti, R; Garcia-Fernandez, MA; Antoranz, JC. "Computers in Cardiology 2005, Vol 32". En: COMPUTERS IN CARDIOLOGY. 32, pp. 129 - 132. 01/01/2005. ISSN 0276-6574, ISBN 0-7803-9337-6
- 149 Title of the work:** Nonlinear Characteristics of Ventricular Fibrillation Depend on Myocardial Infarction Locations
Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)
City of event: Zaragoza,
Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom
Type of contribution: Scientific paper
Gonzalez-Gonzalez, Maria; Barquero-Perez, Oscar; Soguero-Ruiz, Cristina; Jose Sanchez-Munoz, Juan; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadi. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 40, pp. 619 - 622. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4
- 150 Title of the work:** Not all irrigated catheters transfer heat similarly. A comparison of 4 open-irrigated catheters
Name of the conference: Congress of the European-Society-of-Cardiology (ESC)
City of event: Amsterdam,
Organising entity: European Soc Cardiol
Type of contribution: Scientific paper
Curiel-Llamazares, C.; Moreno, J.; Angulo-Hernandez, M. J.; Quintanilla, J. G.; Molina-Morua, R.; Garcia-Torrent, M. J.; Rojo-Alvarez, J. L.; Macaya, C.; Perez-Villacastin, J."EUROPEAN HEART JOURNAL". 34, pp. 901 - 901. 01/08/2013. ISSN 0195-668X, ISSN 1522-9645
- 151 Title of the work:** Numerical analysis of the resolution of surface Electrocardiographic lead systems
Name of the conference: 4th International Conference on Functional Imaging and Modeling of the Heart
City of event: Salt Lake City,
Organising entity: IEEE Engn Med & Biol Soc
Type of contribution: Scientific paper
Requena-Carrion, Jesus; Vaisanen, Juho; Rojo-Alvarez, Jose Luis; Hyttinen, Jari; Alonso-Atienza, Felipe; Malmivuo, Jaakko. "FUNCTIONAL IMAGING AND MODELING OF THE HEART, PROCEEDINGS". En: Lecture Notes in Computer Science. 4466, pp. 310 - +. 01/01/2007. ISSN 0302-9743, ISBN 978-3-540-72906-8
- 152 Title of the work:** On the Early Detection of Perinatal Hypoxia with Information-Theory based Methods
Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)
City of event: Zaragoza,
Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom
Type of contribution: Scientific paper
Santiago-Mozos, Ricardo; Garcia-Vizuetete, Beatriz; Maria Lillo-Castellano, Jose; Luis Rojo-Alvarez, Jose; Martin-Caballero, Carlos. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing



in Cardiology Conference. 40, pp. 425 - 428. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4

- 153 Title of the work:** Ontology for Heart Rate Turbulence Domain Applying the Conceptual Model of SNOMED-CT
Name of the conference: 39th Conference on Computing in Cardiology
City of event: Krakow,
Organising entity: European Soc Cardiol; EMB; IEEE; PhysioNet; Silvermedia; Mortara; Drager; GE; Aspel; itAm; Physiol Measurement; Zoll; IBM
Type of contribution: Scientific paper
Soguero-Ruiz, Cristina; Lechuga, Luis; Mora-Jimenez, Inmaculada; Ramos-Lopez, Javier; Barquero-Perez, Oscar; Garcia-Alberola, Arcadi; Rojo-Alvarez, Jose L. "2012 COMPUTING IN CARDIOLOGY (CINC), VOL 39". En: Computing in Cardiology Conference. 39, pp. 93 - 96. 01/01/2012. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4673-2074-0, ISBN 978-1-4673-2076-4
- 154 Title of the work:** Performance Evaluation of a Volcano Monitoring System Using Wireless Sensor Networks
Name of the conference: IEEE Latin-America Conference on Communications LATINCOM
City of event: Cartagena,
Organising entity: IEEE LATINCOM
Type of contribution: Scientific paper
Lara-Cueva, Roman; Benitez, Diego; Caamano, Antonio; Zennaro, Marco; Luis Rojo-Alvarez, Jose. "2014 IEEE LATIN-AMERICA CONFERENCE ON COMMUNICATIONS (LATINCOM)". 01/01/2014. ISBN 978-1-4799-7162-6
- 155 Title of the work:** Physiological Feature Analysis in Heart Rate Turbulence using LASSO Model
Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)
City of event: Zaragoza,
Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom
Type of contribution: Scientific paper
Barquero-Perez, O.; Goya-Esteban, R.; Figuera, C.; Mora-Jimenez, I.; Garcia-Alberola, A.; Rojo-Alvarez, J. L. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 40, pp. 943 - 946. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4
- 156 Title of the work:** Post Extrasystolic T Wave Change in Subjects With Structural Healthy Ventricles - Measurement and Simulation
Name of the conference: 41st Computing in Cardiology Conference (CinC)
City of event: Cambridge,
Organising entity: Massachusetts Inst Technol; European Soc Cardiol; IEEE EMBS; Mortara; PhysioNet; Philips; Mindray; IBM; Zoll; Mitsubishi Elect; IOP Publishing; IMES; CSAIL; Medtronic; Boston Sci; Samsung; GE
Type of contribution: Scientific paper
Lenis, Gustavo; Lutz, Yannick; Seeman, Gunnar; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose; Barquero-Perez, Oscar; Gil, Eduardo; Doessel, Olaf. "2014 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 41". En: Computing in Cardiology Conference. 41, pp. 1069 - 1072. 01/01/2014. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-4346-3
- 157 Title of the work:** Prediction of Healthcare Associated Infections in an Intensive Care Unit Using Machine Learning and Big Data Tools
Name of the conference: 14th Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON)



City of event: Paphos,

Organising entity: Cyprus Assoc Med Phys & Biomed Engrn; Univ Cyprus; IFMBE; EAMBES; Frederick Univ; European Univ

Type of contribution: Scientific paper

Revueña-Zamorano, Paz; Sanchez, Alberto; Luis Rojo-Alvarez, Jose; Alvarez-Rodriguez, Joaquin; Ramos-Lopez, Javier; Soguero-Ruiz, Cristina. "XIV MEDITERRANEAN CONFERENCE ON MEDICAL AND BIOLOGICAL ENGINEERING AND COMPUTING 2016". En: IFMBE Proceedings. 57, pp. 834 - 839. 01/01/2016. ISSN 1680-0737, ISBN 978-3-319-32701-3, ISBN 978-3-319-32703-7

158 Title of the work: QRS Delineation Algorithms Comparison and Model Fine Tuning for Automatic Clinical Classification

Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)

City of event: Zaragoza,

Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom

Type of contribution: Scientific paper

Casanez-Ventura, Antonio; Gimeno-Blanes, Francisco-Javier; Luis Rojo-Alvarez, Jose; Flores-Yepes, Jose-Antonio; Gimeno-Blanes, Juan-Ramon; Lopez-Ayala, Jose-Maria; Garcia-Alberola, Arcadi. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 40, pp. 1163 - 1166. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4

159 Title of the work: QRS Fragmentation Index as a New Discriminator for Early Diagnosis of Heart Diseases

Name of the conference: 44th Computing in Cardiology Conference (CinC)

City of event: Rennes,

Type of contribution: Scientific paper

Melgarejo-Meseguer, Francisco-Manuel; Salar-Alcaraz, Mariela; Molins-Bordallo, Zaida; Gimeno-Blanes, Francisco-Javier; Everss-Villalba, Estrella; Flores-Yepes, Jose-Antonio; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadi. "2017 COMPUTING IN CARDIOLOGY (CINC)". En: Computing in Cardiology Conference. 44, 01/01/2017. ISSN 2325-8861, ISSN 2325-887X, ISBN *****

160 Title of the work: Quality Evaluation and Effect of Time Synchronization on the Digital Recovery of Intracardiac Electrograms

Name of the conference: 36th Annual Computers in Cardiology Conference (CinC 2009)

City of event: Pk City,

Organising entity: EMB; IEEE; Medtron; CareFus; Biosense Webster; Mortara Instrument; Vitamin Water; Coca-Cola; IBM; GE Healthcare; Forest Pharmaceut Inc; St Jude Med; IOP Publishing; Zoll; Philips Healthcare; SCI - Uni

Type of contribution: Scientific paper

Sanroman-Junquera, M.; Mora-Jimenez, I.; Everss, E.; Almendral-Garrote, J.; Garcia-Alberola, A.; Atienza, F.; Castilla-SanJose, L.; Rojo-Alvarez, J. L. "CINC: 2009 36TH ANNUAL COMPUTERS IN CARDIOLOGY CONFERENCE". En: Computers in Cardiology Series. 36, pp. 801 - +. 01/01/2009. ISSN 0276-6574, ISSN 2325-8853, ISBN 978-1-4244-7281-9

161 Title of the work: Quantitative Spectral Criteria for Cardiac Navigation Sampling Rate using Manifold Harmonics Analysis

Name of the conference: 39th Conference on Computing in Cardiology

City of event: Krakow,

Organising entity: European Soc Cardiol; EMB; IEEE; PhysioNet; Silvermedia; Mortara; Drager; GE; Aspel; itAm; Physiol Measurement; Zoll; IBM

Type of contribution: Scientific paper

Sanroman-Junquera, Margarita; Mora-Jimenez, Inmaculada; Saiz, Javier; Tobon, Catalina; Garcia-Alberola, Arcadi; Luis Rojo-Alvarez, Jose. "2012 COMPUTING IN CARDIOLOGY (CINC), VOL 39". En: Computing



in Cardiology Conference. 39, pp. 357 - 360. 01/01/2012. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4673-2074-0, ISBN 978-1-4673-2076-4

- 162 Title of the work:** Relationship between Heart Rate Turbulence and Local Physiological Variables in Heart Failure Patients
Name of the conference: Conference on Computing in Cardiology
City of event: Hangzhou,
Organising entity: European Soc Cardiol; Zhejiang Univ; EMB; IEEE; Drager; Mortara; Philips; Univ Rochester, Telemetr & Holter ECG Warehouse; Physiol Measurement; Mindray; GE Healthcare; Zoll; Edan; GSMA
Type of contribution: Scientific paper
Barquero-Perez, O.; Goya-Esteban, R.; Everss, E.; Figuera-Pozuelo, C.; Rojo-Alvarez, J. L.; Pascual-Figal, D.; Garcia-Alberola, A."2011 COMPUTING IN CARDIOLOGY". En: Computing in Cardiology Conference. 38, pp. 93 - 96. 01/01/2011. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4577-0611-0
- 163 Title of the work:** Rhythmometric Analysis of Heart Rate Variability Indices During Long Term Monitoring
Name of the conference: 36th Annual Computers in Cardiology Conference (CinC 2009)
City of event: Pk City,
Organising entity: EMB; IEEE; Medtron; CareFus; Biosense Webster; Mortara Instrument; Vitamin Water; Coca-Cola; IBM; GE Healthcare; Forest Pharmaceut Inc; St Jude Med; IOP Publishing; Zoll; Philips Healthcare; SCI - Uni
Type of contribution: Scientific paper
Goya-Esteban, R.; Mora-Jimenez, I.; Rojo-Alvarez, J. L.; Barquero-Perez, O.; Manzano-Martinez, S.; Pastor-Perez, F.; Pascual-Figal, D.; Garcia-Alberola, A."CINC: 2009 36TH ANNUAL COMPUTERS IN CARDIOLOGY CONFERENCE". En: Computing in Cardiology Series. 36, pp. 57 - +. 01/01/2009. ISSN 0276-6574, ISBN 978-1-4244-7281-9
- 164 Title of the work:** SPECTRALLY ADAPTED MERCER KERNELS FOR SUPPORT VECTOR SIGNAL INTERPOLATION
Name of the conference: 19th European Signal Processing Conference (EUSIPCO)
City of event: Barcelona,
Organising entity: Ctr Tecnol Telecomunicac Catalunya; European Assoc Signal Speech & Image Proc
Type of contribution: Scientific paper
Figuera, C.; Rojo-Alvarez, J. L.; Martinez-Ramon, M.; Guerrero-Curienes, A.; Caamano, A. J."19TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO-2011)". En: European Signal Processing Conference. pp. 961 - 965. 01/01/2011. ISSN 2076-1465, ISBN *****
- 165 Title of the work:** Signal Processing Subsystem Validation for T-wave Alternans Estimation
Name of the conference: 37th Annual Conference of the Computing-in-Cardiology
City of event: Belfast,
Organising entity: Comp Cardiol; EMB; IEEE; Univ Ulster; Medtronic; HeartSine; Drager; GE Healthcare; Mortara; Univ Rochester, Telemetr & Holter ECG Warehouse Project; Zoll; Inst Phys; IBM
Type of contribution: Scientific paper
Goya-Esteban, R.; Mora-Jimenez, I.; Blanco-Velasco, M.; Barquero-Perez, O.; Caamano-Fernandez, A.; Rojo-Alvarez, J. L.; Garcia-Alberola, A."COMPUTING IN CARDIOLOGY 2010, VOL 37". En: Computing in Cardiology Conference. 37, pp. 1035 - 1038. 01/01/2010. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4244-7318-2
- 166 Title of the work:** Spectral and Nonlinear Analysis of Surgical Ventricular Fibrillation
Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)
City of event: Zaragoza,

Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom

Type of contribution: Scientific paper

Javier Pulido-Hidalgo, Francisco; Barquero-Perez, Oscar; Soguero-Ruiz, Cristina; Jose Sanchez-Munoz, Juan; Luis Rojo-Alvarez, Jose; Garcia-Alberola, Arcadi. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 40, pp. 1123 - 1126. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4

- 167 Title of the work:** Support Vector Feature Selection for Early Detection of Anastomosis Leakage From Bag-of-Words in Electronic Health Records
Name of the conference: 12th Annual International Conference on Wearable and Implantable Body Sensor Networks (BSN)
City of event: Cambridge,
Type of contribution: Scientific paper
Soguero-Ruiz, Cristina; Hindberg, Kristian; Luis Rojo-Alvarez, Jose; Skrovseth, Stein Olav; Godtlielsen, Fred; Mortensen, Kim; Revhaug, Arthur; Lindsetmo, Rolv-Ole; Augestad, Knut Magne; Jenssen, Robert. "IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS". 20 - 5, 01/09/2016. ISSN 2168-2194
- 168 Title of the work:** Support Vector Method for ARMA system identification: A robust cost interpretation
Name of the conference: 12th International Conference on Artificial Neural Networks (ICANN 2002)
City of event: MADRID,
Organising entity: Univ Autonoma Madrid, Neural Network Grp Escuela Tecn Superior Ingenier Informat; European Neural Networks Soc; Spain Minist Cienc Tecnol; Inst Ingenier Conocimiento; FET Program, European Commiss; IE
Type of contribution: Scientific paper
Rojo-Alvarez, JL; Martinez-Ramon, M; Figueiras-Vidal, AR; de Prado-Cumplido, M; Artes-Rodriguez, A. "ARTIFICIAL NEURAL NETWORKS - ICANN 2002". En: LECTURE NOTES IN COMPUTER SCIENCE. 2415, pp. 1106 - 1111. 01/01/2002. ISSN 0302-9743, ISBN 3-540-44074-7
- 169 Title of the work:** Support Vector robust algorithms for non-parametric spectral analysis
Name of the conference: 12th International Conference on Artificial Neural Networks (ICANN 2002)
City of event: MADRID,
Organising entity: Univ Autonoma Madrid, Neural Network Grp Escuela Tecn Superior Ingenier Informat; European Neural Networks Soc; Spain Minist Cienc Tecnol; Inst Ingenier Conocimiento; FET Program, European Commiss; IE
Type of contribution: Scientific paper
Rojo-Alvarez, JL; Garcia-Alberola, A; Martinez-Ramon, M; Valdes, M; Figueiras-Vidal, AR; Artes-Rodriguez, A. "ARTIFICIAL NEURAL NETWORKS - ICANN 2002". En: LECTURE NOTES IN COMPUTER SCIENCE. 2415, pp. 1100 - 1105. 01/01/2002. ISSN 0302-9743, ISBN 3-540-44074-7
- 170 Title of the work:** T-Wave Alternans Analysis With Electrocardiographic Imaging
Name of the conference: 45th Computing in Cardiology Conference (CinC)
City of event: Maastricht,
Type of contribution: Scientific paper
Rojo-Alvarez, J. L.; Goya-Esteban, R.; Munoz-Romero, S.; Garcia-Alberola, A.; Melgarejo-Meseguer, F. M.; Blanco-Velasco, M."2018 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 45, 01/01/2018. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-7281-0958-9
- 171 Title of the work:** The analysis of Doppler-derived end-systolic intraventricular pressure gradients provides a reliable estimation of the rate of ventricular relaxation
Name of the conference: 28th Congress of the European-Society-of-Cardiology/World Congress of Cardiology



City of event: Barcelona,

Organising entity: European Soc Cardiol; World Heart Federat

Type of contribution: Scientific paper

Alvarez, R. Yotti; Cortina, C.; Antoranz, J. C.; Desco, M.; Rojo-Alvarez, J. L.; Allue, C.; Garcia-Fernandez, M. A.; Bermejo, J. "EUROPEAN HEART JOURNAL". 27, pp. 848 - 848. 01/08/2006. ISSN 0195-668X, ISSN 1522-9645

172 Title of the work: Time and Frequency Feature Selection for Seismic Events from Cotopaxi Volcano

Name of the conference: 2015 Asia-Pacific Conference on Computer Aided System Engineering

City of event: Quito,

Organising entity: Univ San Francisco; IEEE; IEEE Comp Soc; Escuela Super Politecn Litoral; Univ Politecn SALESIANA Ecuador; UTS Engr & Informat Technol; Univ Technol Sydney; Oberosterreich; BINUS Univ People Innovat Ex

Type of contribution: Scientific paper

Lara-Cueva, Roman; Bernal, Paul; Gabriela Saltos, Maria; Benitez, Diego S.; Luis Rojo-Alvarez, Jose. "2015 ASIA-PACIFIC CONFERENCE ON COMPUTER-AIDED SYSTEM ENGINEERING - APCASE 2015". pp. 129 - 134. 01/01/2015. ISBN 978-1-4799-7588-4

173 Title of the work: Towards Semantic Interoperability for Cardiovascular Risk Stratification into the Electronic Health Records Using Archetypes and SNOMED-CT

Name of the conference: 41st Computing in Cardiology Conference (CinC)

City of event: Cambridge,

Organising entity: Massachusetts Inst Technol; European Soc Cardiol; IEEE EMBS; Mortara; PhysioNet; Philips; Mindray; IBM; Zoll; Mitsubishi Elect; IOP Publishing; IMES; CSAIL; Medtronic; Boston Sci; Samsung; GE

Type of contribution: Scientific paper

Sanchez-Caro, Alfonso; Soguero-Ruiz, Cristina; Mora-Jimenez, Inmaculada; Lechuga, Luis; Ramos-Lopez, Javier; Garcia-Alberola, Arcadi; Serrano-Balazote, Pablo; Rojo-Alvarez, Jose L. "2014 COMPUTING IN CARDIOLOGY CONFERENCE (CINC), VOL 41". En: Computing in Cardiology Conference. 41, pp. 497 - 500. 01/01/2014. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-4346-3

174 Title of the work: Usefulness of 7-day Holter Monitoring for Heart Rate Variability Nonlinear Dynamics Evaluation

Name of the conference: Conference on Computing in Cardiology

City of event: Hangzhou,

Organising entity: European Soc Cardiol; Zhejiang Univ; EMB; IEEE; Drager; Mortara; Philips; Univ Rochester, Telemetr & Holter ECG Warehouse; Physiol Measurement; Mindray; GE Healthcare; Zoll; Edan; GSMA

Type of contribution: Scientific paper

Goya-Esteban, R.; Barquero-Perez, O.; Caamano-Fernandez, A.; Rojo-Alvarez, J. L.; Pastor-Perez, F. J.; Manzano-Fernandez, S.; Garcia-Alberola, A. "2011 COMPUTING IN CARDIOLOGY". En: Computing in Cardiology Conference. 38, pp. 105 - 108. 01/01/2011. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4577-0611-0

175 Title of the work: VENTRICULAR, VALVULAR, AND VASCULAR ADAPTATION TO AORTIC VALVE STENOSIS. INTEGRATED FREQUENCY-DOMAIN AND WAVE-INTENSITY ANALYSES IN EXPERIMENTAL CHRONIC DISEASE

Name of the conference: 61st Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC)

City of event: Chicago,

Organising entity: Amer Coll Cardiol (ACC)

Type of contribution: Scientific paper



Yotti, Raquel; Bermejo, Javier; Luis Rojo-Alvarez, Jose; Burwash, Ian; del Villar Moro, Candelas Perez; Gutierrez-Ibanes, Enrique; Gonzalez-Mansilla, Ana; Otto, Catherine; Fernandez-Aviles, Francisco. "JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY". 59 - 13, pp. E2016 - E2016. 27/03/2012. ISSN 0735-1097

- 176 Title of the work:** eLab: A Web-based Platform to Perform HRV and HRT Analysis and Store Cardiac Signals
Name of the conference: 40th Annual Meeting on Computing in Cardiology (CinC)
City of event: Zaragoza,
Organising entity: EMB; IEEE; PhysioNet; Mortara; Univ Inst Investigac Ingn Aragon, Univ Zaragoza; Philips; Escuela Ingn Arquitectura, Univ Zaragoza; GE Healthcare Life Sci; Cardiolund; Ciber-BBN, Centro Investigac Biom
Type of contribution: Scientific paper
Barquero-Perez, O.; Quintanilla, T.; Garia-Munoz, J.; Soguero-Ruiz, C.; Wilby, M. R.; de la Rosa, M.; Cabanas, M.; Gonzalez, I.; Bravo, R.; Garcia-Alberola, A.; Rojo-Alvarez, J. L. "2013 COMPUTING IN CARDIOLOGY CONFERENCE (CINC)". En: Computing in Cardiology Conference. 40, pp. 21 - 24. 01/01/2013. ISSN 2325-8861, ISSN 2325-887X, ISBN 978-1-4799-0884-4

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Director del área de Ciencia (Chief Scientific Officer) en Persei Vivarium SL, empresa matriz de un grupo de Organizaciones innovadoras en eHealth (TIC aplicadas a la salud) que tienen como objetivo generar productos y servicios tecnológicos de innovación disruptiva en el ámbito de la salud.
Affiliation entity: PERSEI VIVARIUM S.L.
Start date: 01/11/2015
- 2 Committee title:** Iniciativa de emprendimiento para monitorización de tercera edad mediante dispositivos wearables. Ha recibido diversos premios al emprendimiento hasta la fecha, entre los cuales destacan el mejor proyecto empresarial en el Singularity University Summit Spain 2015 y Ganadores de la Convocatoria 2015 de la Aceleradora de Proyectos de Alto Potencial de Madrid Emprende (vivero de empresas de Carabanchel).
Affiliation entity: Madrid Emprende
Start date: 01/10/2015
- 3 Committee title:** Líder de Proyecto en Gestión de la Investigación, el Desarrollo, la Innovación y la Transferencia Tecnológica Mediante Tecnologías de la Información y de la Comunicación.
Affiliation entity: Ministerio de Telecomunicaciones, Quito (Ecuador)
Start date: 01/07/2015
- 4 Committee title:** Miembro del panel internacional coordinado para la revisión y actualización del estándar de almacenamiento y transmisión digital de registros electrocardiográficos. Actualización de campos relacionados con extracción de parámetros, lenguajes controlados, ampliación de alcance.
Affiliation entity: ANSI/AAMI/CEN
Start date: 01/01/2014
- 5 Committee title:** Líder de Proyecto en Sistemas de Supervisión Volcánica, Ambientes Inteligentes, Redes de Sensores Corporales, Saturación del Espectro Radioeléctrico, Modelado de Canal Radioeléctrico durante caída de Ceniza.
Affiliation entity: Vicerrectorado de Investigación, Innovación y Transferencia Tecnológica, Universidad de las Fuerzas Armadas ESPE



Start date: 01/07/2013

Organization of R&D activities

- 1** **Title of the activity:** BIOCUM - 1st Workshop on Biomedical Engineering, Communications and Health
Type of activity: Seminario
Start-End date: 20/02/2012 - 23/02/2012

- 2** **Title of the activity:** Comunicaciones vehiculares en favor de la autonomía personal y la vida independiente de los colectivos vulnerables
Type of activity: Seminario **Geographical area:** Others
Start-End date: 23/03/2009 - 26/03/2009

- 3** **Title of the activity:** Nuevas tecnologías y seguridad en la automoción
Type of activity: Seminario **Geographical area:** Others
Start-End date: 27/10/2008 - 29/10/2008

- 4** **Title of the activity:** Señales e Imágenes Médicas en DTSC-URJC.
Type of activity: Jornada **Geographical area:** Others
Start-End date: 14/05/2008 - 14/05/2008

- 5** **Title of the activity:** Comunicaciones inalámbricas: de área personal, de área local, de área extensa
Type of activity: Feria **Geographical area:** Regional
Start-End date: 12/04/2007 - 15/04/2007

- 6** **Title of the activity:** Comunicaciones inalámbricas y aplicaciones desarrolladas por alumnos de la ETSIT de la URJC
Type of activity: Feria
Start-End date: 07/03/2007 - 11/03/2007

R&D management

Name of the activity: Director Académico de Planificación Científica
Type of management: Management of R&D&I actions and projects
Performed tasks: Director Académico de Planificación Científica
Entity: Universidad Rey Juan Carlos **Type of entity:** University
Start date: 01/06/2021 **Duration:** 2021 years



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Universidad de las Fuerzas Armadas, Escuela Politécnica Superior del Ejército
City of entity: LATACUNGA y SANGOLQUÍ, Ecuador
Start-End date: 01/07/2015 - 01/11/2015 **Duration:** 4 months
Funding entity: Presidencia de la República del Ecuador; Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación.
Name of programme: Programa PROMETEO del Gobierno de Ecuador
Goals of the stay: Postdoctoral, competitiva, financiada por el Gobierno de Ecuador.
Provable tasks: Beca competitiva concedida por la Presidencia de la República del Ecuador.
Temas impartidos: Métodos de Aprendizaje Estadístico y Análisis de Complejidad Mediante Métodos Núcleo/Aplicaciones en Problemas de Redes de Sensores, Bioingeniería y Canales Radioeléctrico.
- 2** **Entity:** Universidad de las Fuerzas Armadas, Escuela Politécnica Superior del Ejército
City of entity: Latacunga y Sangolquí, Ecuador
Start-End date: 01/07/2014 - 01/11/2014 **Duration:** 4 months
Funding entity: Presidencia de la República del Ecuador; Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación.
Name of programme: Programa PROMETEO de la Presidencia de la República del Ecuador; Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación
Goals of the stay: Others
Provable tasks: Beca competitiva concedida por la Presidencia de la República del Ecuador.
Temas impartidos: Métodos de Aprendizaje Estadístico y Análisis de Complejidad Mediante Métodos Núcleo/Aplicaciones en Problemas de Redes de Sensores, Bioingeniería y Canales Radioeléctrico.
- 3** **Entity:** Universidad de las Fuerzas Armadas, Escuela Politécnica Superior del Ejército
City of entity: Latacunga y Sangolquí, Ecuador
Start-End date: 30/10/2013 - 15/12/2013 **Duration:** 1 month - 15 days
Funding entity: Presidencia de la República del Ecuador; Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación.
Name of programme: Programa PROMETEO de la Presidencia de la República del Ecuador; Secretaría Nacional de Educación Superior, Ciencia, Tecnología e Innovación.
Goals of the stay: Others
Provable tasks: Beca competitiva concedida por la Presidencia de la República del Ecuador.
Temas impartidos: Métodos de Aprendizaje Estadístico y Análisis de Complejidad Mediante Métodos Núcleo/Aplicaciones en Problemas de Redes de Sensores, Bioingeniería y Canales Radioeléctrico.
- 4** **Entity:** Institute for Cardiovascular Research. State University of New York
City of entity: SYRACUSE, United States of America
Start-End date: 01/07/2006 - 30/09/2006 **Duration:** 3 months
Goals of the stay: Post-doctoral
Provable tasks: Institute for Cardiovascular Research (State University of New York) con el Dr. José Jalife, en los temas Caracterización subumbral del área liminal en tejido miocárdico y Análisis espectral de electrogramas y registros ópticos cardíacos.



- 5** **Entity:** Institute for Cardiovascular Research. State University of New York
City of entity: SYRACUSE, United States of America
Start-End date: 01/07/2005 - 30/07/2005 **Duration:** 29 days
Goals of the stay: Guest
Provable tasks: Institute for Cardiovascular Research (State University of New York) con el Dr. José Jalife en los temas: § Modelo Markoviano de los canales de potasio en células miocárdicas § Caracterización subumbral del área liminal en tejido miocárdico
- 6** **Entity:** Department of Electronics, Computer Science and Systems (Universidad de Bolonia)
City of entity: BOLONIA, Italy
Start-End date: 01/04/2004 - 30/04/2004 **Duration:** 1 month
Goals of the stay: Post-doctoral
Provable tasks: Department of Electronics, Computer Science and Systems (Universidad de Bolonia) con el Dr. Mauro Ursino y la Dra. Elisa Magosso en el tema: § Mathematical Model of Short-Term Cardiovascular Regulation
- 7** **Entity:** Servicio de Cardiología del Hospital Universitario Virgen de la Arrixaca
City of entity: MURCIA, Spain
Start-End date: 01/03/2001 - 30/04/2001 **Duration:** 2 months
Goals of the stay: Post-doctoral
Provable tasks: Servicio de Cardiología del Hospital Universitario Virgen de la Arrixaca con el Dr. Arcadi García Alberola en los temas: § Variabilidad de Frecuencia Cardíaca § Análisis de la Repolarización
- 8** **Entity:** Hospital Universitario Gregorio Marañón (Madrid)
City of entity: MADRID, Spain
Start-End date: 01/12/1996 - 01/03/2000 **Duration:** 3 years - 3 months
Goals of the stay: Others
Provable tasks: Beca de 4 años en el Laboratorio de Electrofisiología del Hospital General Universitario Gregorio Marañón

Obtained grants and scholarships

- 1** **Name of the grant:** Programa PROMETEO
Aims: Others
Awarding entity: Presidencia de la República del Ecuador; Secretaría Nacional de Ciencia e Innovación
Conferral date: 01/07/2013 **Duration:** 2 years - 6 months
End date: 31/12/2015
Entity where activity was carried out: Universidad de las Fuerzas Armadas ESPE
Faculty, institute or centre: Universidad de las Fuerzas Armadas (ESPE)
- 2** **Name of the grant:** Iniciativa de emprendimiento para monitorización de tercera edad mediante dispositivos wearables. Ha recibido diversos premios al emprendimiento hasta la fecha, entre los cuales destacan el mejor proyecto empresarial en el Singularity University Summit Spain 2015 y Ganadores de la Convocatoria 2015 de la Aceleradora de Proyectos de Alto Potencial de Madrid Emprende (vivero de empresas de Carabanchel).
Aims: Others
Awarding entity: Madrid Emprende
Duration: 1 year
End date: 31/12/2015
Entity where activity was carried out: Madrid Emprende

Periods of research activity

Nº of recognized periods: 3

Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** 1

City certifying entity: Fuenlabrada, Community of Madrid, Spain

Date of recognition: 2016

Summary of other achievements

- 1 Description of the achievement:** Miembro de la Comisión Ministerial para evaluación de proyectos de investigación del Programa Nacional de Proyectos de Investigación Fundamental.
Accrediting entity: Ministerio de Economía y Competitividad
Conferral date: 01/01/2016
- 2 Description of the achievement:** Director del área de Ciencia en Persei Vivarium es la empresa matriz de un grupo de Organizaciones innovadoras en eHealth (TIC aplicadas a la salud).
Accrediting entity: PERSEI VIVARIUM S.L.
Conferral date: 01/01/2015
- 3 Description of the achievement:** Finalistas en IDEA2 Madrid Mentored Innovation Program 2015, Madrid-MIT m+visio? n consortium con el Proyecto emprendedor: ResHeart - Translational Research and Transfer for a Non-Invasive Cardiac Monitoring System from ECG Imaging at the Cloud for Arrhythmias Monitoring .
Accrediting entity: Fundación para el Conocimiento madri d
Conferral date: 01/01/2015
- 4 Description of the achievement:** Ganadores de la Convocatoria 2015 de la Aceleradora de Proyectos de Alto Potencial de Madrid Emprende (vivero de empresas de Carabanchel) con el proyecto de emprendimiento PULSESECURITY.
Accrediting entity: Agencia de Desarrollo Económico Madrid Emprende
Conferral date: 01/01/2015
- 5 Description of the achievement:** Mejor proyecto empresarial en el Singularity University Summit Spain 2015
Accrediting entity: Singularity University Summit
Conferral date: 01/01/2015
- 6 Description of the achievement:** Premio del Consejo Social de la URJC a la EXCELENCIA INVESTIGADORA 2014. Accésit ex aequo en la modalidad de Ingeniería y Arquitectura en 2015.
Accrediting entity: Universidad Rey Juan Carlos
Conferral date: 01/01/2015
- 7 Description of the achievement:** Miembro del Program Committee, IWPRHA (2nd International Workshop on Pattern Recognition for Healthcare Analytics)
Conferral date: 01/08/2014



- 8** **Description of the achievement:** Miembro del comité para el diseño y creación del Plan de Investigación y Desarrollo del Departamento de Eléctrica y Electrónica de la ESPE. Miembro asesor de la comisión de calidad para la creación del Plan de Investigación del grupo WiCom. Universidad de las Fuerzas Armadas ESPE (Quito, Ecuador)
Accrediting entity: Universidad de las Fuerzas Armadas ESPE
Conferral date: 01/01/2014
- 9** **Description of the achievement:** Chairman de Sesiones Especializadas, Computing in Cardiology: Clinical Electrophysiology, Physiological Variability y Heart Rate Variability.
Accrediting entity: COMPUTING IN CARDIOLOGY
Conferral date: 01/01/2012
- 10** **Description of the achievement:** Representante en la Comisión de Investigación de la URJC. Miembro de la Comisión de Investigación de la URJC en representación de la ETSIT. Elaboración y asesoría en convocatorias de proyectos, movilidad, premios y otros.
Accrediting entity: Universidad Rey Juan Carlos
Conferral date: 01/01/2012
- 11** **Description of the achievement:** Revisor de proyectos de I+D+i, Area Tecnologías Electrónicas y de Comunicaciones, Tratamiento de la Señal y Aplicaciones desde 2008.
Accrediting entity: AGENCIA NACIONAL DE EVALUACIÓN Y PROSPECTIVA - ANEP
Conferral date: 01/01/2008
- 12** **Description of the achievement:** Premio al artículo "Noninvasive Assessment of the Right Ventricular Filling Pressure Gradient" como mejor Artículo Español Publicado en Revista Extranjera 2007.
Accrediting entity: EDICIONES MAYO
Conferral date: 01/01/2007
- 13** **Description of the achievement:** Premio de la Sociedad Española de Cardiología al mejor trabajo publicado en la Revista Española de Cardiología en 2005 sobre Electrofisiología y Arritmias.
Accrediting entity: Sociedad Española de Cardiología
Conferral date: 26/10/2006