



**José Ignacio Serrano Moreno**

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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.

José Ignacio Serrano Moreno was born in Madrid, Spain, in 1977. He graduated with a degree in computer engineering from the Complutense University of Madrid (UCM) in 2002. He earned an M.S. and a Ph.D. in artificial intelligence and software engineering from UCM in 2004 and 2007, respectively. He then obtained an additional master's degree in psychobiology and cognitive neuroscience from the Autonomous University of Barcelona (UAB) in 2008. His doctoral thesis focused on developing a psychologically plausible computational model of the reading process in the human mind, able to predict the next word given the previous context, which is the seed of the current LLMs. Dr. Serrano has continued to work on intelligent information analysis, particularly linguistic analysis, and artificial intelligence from the perspective of simulating human cognitive processes, through private contracts with the CSIC (2002–present). Dr. Serrano currently works at the Center for Automatics and Robotics of CSIC. He performs work related IA and data analysis applied to a variety of fields. In 2014, he received the second prize of the Annual BCI Research Award from Guger Technologies. He also received the award for the best paper at the IEEE-BIBE 2020 conference on neuromodulation in infantile cerebral palsy. He has participated in several national and European projects in this field, including the national project CP-Walker, in which he contributed to developing the first brain-computer interface to control a robotic exoskeleton for children with cerebral palsy. Diario Médico awarded this project the Best Ideas prize in 2013, and the CASER Foundation awarded it the R&D Projects in Dependence and Society prize in 2017. José Ignacio Serrano continues to apply cognitive computational modeling to mental disorders and artificial intelligence and data analysis to medical informatics, primarily in Neurology and Orthopedic Surgery. He has published 63 papers in journals indexed in the JCR (21 ranked in the first quartile of the corresponding journal category), 7 papers in journals indexed in other databases, 7 book chapters, and 77 conference papers, with a h-index of 24, an i10-index of 50, and 2163 citations according to Google Scholar, and h-index of 17 and 1192 citations according to Scopus. He has supervised four doctoral theses (currently supervising three more) and 12 master's and bachelor's theses cognitive science, rehabilitation technologies and neuroengineering. He has also served on the scientific committees of numerous conferences, such as the annual meetings of the Cognitive Science Society (CogSci) and Biologically-Inspired Cognitive Architectures (BICA). He has also served on the editorial boards of several international journals, including Frontiers in Neurology, Frontiers in Human Neuroscience, IEEE Transactions on Neural Systems and Rehabilitation Engineering, Brain-Computer Interfaces, and Cognitive Neurodynamics. Serrano has also served as an evaluator and expert monitor for the European Commission in Horizon 2020 and Horizon Europe (EIC-Transition), as well as for the Ministry of Science, Technology and Innovation of Argentina and the State Agency for Financing Education, Research, Development and Innovation of Romania. He is also a founding member of Werium Assistive Solutions S.L., a spin-off company that develops products and offers technological services for neurorehabilitation. The company received awards from the La Caixa Foundation (Impulse) in 2015, the Madrid+d Foundation of Knowledge (Best Technology-Based Idea) in 2016, and AMETIC (Innova



eVIA) in 2016. He was also a founding member of the first cognitive science network in Spain, Retecog, and was a member of the International Neural Network Society, the European Medical Informatics, Statistics, and Epidemiology Mentor Association, and the IEEE Task Force on Toward Human-Like Intelligence. Currently, he is a member of the Biologically-Inspired Cognitive Architectures (BICA) Association and the Task Force on a Common Model of the Mind. In addition, he also was responsible for preparing the technological part of the program for the new "Biomedical Engineering" degree at the Universidad Francisco de Vitoria. He is also member of the Technological Ethics Committee of the Center for Automation and Robotics (CSIC-UPM).



## Leadership Merits

Brief presentation of the merits related to leadership activities of special relevance.



## 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.

63 papers in journals indexed in JCR (21 in Q1)  
8 papers in journals indexed in other databases  
8 book chapters  
77 papers in proceedings of national and international conferences

Citations from 2004: 1192  
h-index:17 (Source: Scopus)

Citations from 2002: 2163  
Citations from 2021: 1035  
h-index: 24  
h10-index: 50  
(Source: Google Scholar)

ORCID iD:  
<https://orcid.org/0000-0002-9333-1305>



## José Ignacio Serrano Moreno

Surname(s): **Serrano Moreno**  
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Personal web page: **<https://sites.google.com/site/jignacioserranohome/>**

### Current professional situation

**Employing entity:** Consejo Superior de Investigaciones Científicas  
**Type of entity:** State agency  
**Department:** Centro de Automática y Robótica, CSIC  
**Professional category:** Tenured Scientist  
**Start date:** 12/11/2021  
**Type of contract:** Civil servant  
**Dedication regime:** Full time

### Previous positions and activities

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
1	CENTRO DE AUTOMATICA Y ROBOTICA	Doctor Contratado - FC1	01/07/2019
2	CENTRO DE AUTOMATICA Y ROBOTICA	Doctor Contratado - FC1	11/06/2018
3	CENTRO DE AUTOMATICA Y ROBOTICA	Doctor Contratado - FC1	01/05/2016
4	CENTRO DE AUTOMATICA Y ROBOTICA (CSIC)	Titulado Superior de Actividades Técnicas y Profesionales (FC1)	16/07/2013
5	CENTRO DE AUTOMATICA Y ROBOTICA (CSIC)	Titulado Superior (FC1)	18/06/2010
6	Instituto de Automática Industrial	Titulado Superior de Actividades Técnicas y Profesionales	01/01/2007
7	Instituto de Automática Industrial	Titulado Superior de Investigación y Laboratorio	01/07/2006
8	Instituto de Automática Industrial	Titulado Superior de Investigación y Laboratorio	12/01/2006
9	Instituto de Automática Industrial	Becariol3P Postgrado	01/01/2005
10	Instituto de Automática Industrial	Becario Predoctoral	01/09/2004
11	Instituto de Automática Industrial	Becario Predoctoral	01/01/2004
12	Instituto de Automática Industrial	Becariol3P Postgrado	01/12/2002
13	Instituto de Automática Industrial	Becario Predoctoral	01/10/2002
14	Instituto de Automática Industrial	Becario Predoctoral	01/07/2002
15	Instituto de Automática Industrial	Becario Predoctoral	01/05/2002



	Employing entity	Professional category	Start date
16	Instituto de Automática Industrial	Titulado Superior de Investigación y Laboratorio	01/03/2002
17	Instituto de Automática Industrial (CSIC)	Permiso de estancia	01/02/2002

- 1** **Employing entity:** CENTRO DE AUTOMATICA Y **Type of entity:** State agency  
ROBOTICA  
**Department:** CENTRO DE AUTOMATICA Y ROBOTICA, Consejo Superior de Investigaciones Científicas  
**City employing entity:** Madrid, Comunidad de, Spain  
**Professional category:** Doctor Contratado - FC1  
**Start-End date:** 01/07/2019 - 11/11/2021 **Duration:** 2 years - 5 months - 11 days  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 120304 - Artificial intelligence; 249001 - Neurophysiology; 330000 - Technological Science.  
**Identify key words:** Neurophysiology; Physiology psychology; Cognitive proceedings; Medical computing; Virtual reality; Programming language  
**Area of leadership and/or management activity:** Public Research Body
- 2** **Employing entity:** CENTRO DE AUTOMATICA Y **Type of entity:** State agency  
ROBOTICA  
**Professional category:** Doctor Contratado - FC1  
**Start-End date:** 11/06/2018 - 30/06/2019 **Duration:** 11 months - 11 days  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 120304 - Artificial intelligence; 249001 - Neurophysiology; 330000 - Technological Science.  
**Identify key words:** Neurophysiology; Physiology psychology; Cognitive proceedings; Medical computing; Virtual reality; Programming language
- 3** **Employing entity:** CENTRO DE AUTOMATICA Y **Type of entity:** State agency  
ROBOTICA  
**Professional category:** Doctor Contratado - FC1  
**Start-End date:** 01/05/2016 - 30/04/2018 **Duration:** 2 years  
**Type of contract:** Temporary employment contract  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 120304 - Artificial intelligence; 249001 - Neurophysiology; 330000 - Technological Science.  
**Identify key words:** Neurophysiology; Physiology psychology; Cognitive proceedings; Medical computing; Virtual reality; Programming language
- 4** **Employing entity:** CENTRO DE AUTOMATICA Y **Type of entity:** Public Research Body  
ROBOTICA (CSIC)  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Titulado Superior de Actividades Técnicas y Profesionales (FC1)  
**Start-End date:** 16/07/2013 - 30/04/2016 **Duration:** 2 years - 11 months  
**Type of contract:** Temporary employment contract

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**Employing entity:** CENTRO DE AUTOMÁTICA Y ROBOTICA (CSIC)  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Titulado Superior (FC1)  
**Start-End date:** 18/06/2010 - 01/04/2013      **Duration:** 2 years - 10 months - 12 days  
**Type of contract:** Temporary employment contract

**6** **Employing entity:** Instituto de Automática Industrial      **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Titulado Superior de Actividades Técnicas y Profesionales  
**Start-End date:** 01/01/2007 - 23/05/2010      **Duration:** 3 years - 4 months - 23 days  
**Type of contract:** Temporary employment contract

**7** **Employing entity:** Instituto de Automática Industrial      **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Titulado Superior de Investigación y Laboratorio  
**Start-End date:** 01/07/2006 - 31/12/2007      **Duration:** 6 months  
**Type of contract:** Temporary employment contract

**8** **Employing entity:** Instituto de Automática Industrial      **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Titulado Superior de Investigación y Laboratorio      **Leadership and management (Y/N):** No  
**Start-End date:** 12/01/2006 - 30/06/2006      **Duration:** 5 months - 20 days  
**Type of contract:** Temporary employment contract  
**Area of leadership and/or management activity:** Public Research Body

**9** **Employing entity:** Instituto de Automática Industrial      **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** BecarioI3P Postgrado  
**Start-End date:** 01/01/2005 - 31/12/2005      **Duration:** 1 year  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**10** **Employing entity:** Instituto de Automática Industrial      **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Becario Predoctoral      **Leadership and management (Y/N):** No  
**Start-End date:** 01/09/2004 - 31/12/2004      **Duration:** 4 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Area of leadership and/or management activity:** Public Research Body

**11** **Employing entity:** Instituto de Automática Industrial      **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Becario Predoctoral      **Leadership and management (Y/N):** No  
**Start-End date:** 01/01/2004 - 31/08/2004      **Duration:** 8 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)



**Area of leadership and/or management activity:** Public Research Body

- 12** **Employing entity:** Instituto de Automática Industrial **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** BecarioI3P Postgrado **Leadership and management (Y/N):** No  
**Start-End date:** 01/12/2002 - 30/11/2003 **Duration:** 1 year  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Area of leadership and/or management activity:** Public Research Body
- 13** **Employing entity:** Instituto de Automática Industrial **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Becario Predoctoral **Leadership and management (Y/N):** No  
**Start-End date:** 01/10/2002 - 30/11/2002 **Duration:** 2 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Area of leadership and/or management activity:** Public Research Body
- 14** **Employing entity:** Instituto de Automática Industrial **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Becario Predoctoral **Leadership and management (Y/N):** No  
**Start-End date:** 01/07/2002 - 30/09/2002 **Duration:** 3 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Area of leadership and/or management activity:** Public Research Body
- 15** **Employing entity:** Instituto de Automática Industrial **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Becario Predoctoral **Leadership and management (Y/N):** No  
**Start-End date:** 01/05/2002 - 30/06/2002 **Duration:** 2 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Area of leadership and/or management activity:** Public Research Body
- 16** **Employing entity:** Instituto de Automática Industrial **Type of entity:** State agency  
**City employing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Professional category:** Titulado Superior de Investigación y Laboratorio **Leadership and management (Y/N):** No  
**Start-End date:** 01/03/2002 - 30/04/2002 **Duration:** 2 months  
**Type of contract:** Temporary employment contract  
**Area of leadership and/or management activity:** Public Research Body
- 17** **Employing entity:** Instituto de Automática Industrial (CSIC)  
**Professional category:** Permiso de estancia  
**Start date:** 01/02/2002 **Duration:** 1 month



## Education

### University education

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

- 1 University degree:** Higher degree  
**Name of qualification:** Ingeniero en Informática  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of qualification:** 01/07/2001
- 2 University degree:** Middle degree  
**Name of qualification:** Ingeniero Técnico en Informática de Sistemas Mención  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of qualification:** 01/07/1999

#### Doctorates

- 1 Doctorate programme:** Master en Psicobiología y Neurociencia Cognitiva  
**Degree awarding entity:** Universitat Autònoma de Barcelona **Type of entity:** University  
**Date of degree:** 01/07/2008
- 2 Doctorate programme:** Programa Oficial de Doctorado en Inteligencia Artificial y Sistemas Informáticos  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of degree:** 22/10/2007
- 3 Doctorate programme:** Suficiencia Investigadora - Diploma de Estudios Avanzados  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of degree:** 01/10/2007

### Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** ANT Neuromeeting 2022: Neuroscience & Artificial Intelligence  
**Awarding entity:** ANT Neuro Education Department  
**End date:** 28/01/2022 **Duration in hours:** 16 hours
- 2 Training title:** Jornada Científica del X Aniversario del Centro de Automática y Robótica  
**Awarding entity:** CENTRO DE AUTOMATICA Y ROBOTICA **Type of entity:** State agency

**End date:** 08/11/2019**Duration in hours:** 6 hours**3 Type of training:** Course**Training title:** ESTADÍSTICA APLICADA AVANZADA. DISEÑO DE EXPERIMENTOS Y ANÁLISIS MULTIVARIANTE**City awarding entity:** Madrid, Spain**Awarding entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency**End date:** 17/10/2019**Duration in hours:** 20 hours**4 Training title:** Simposio Cajal 2018. Neurodegeneration. Which are the issues? What can we do?**Awarding entity:** Cátedra UAM-Fundación Tatiana Pérez de Guzmán el Bueno**Type of entity:** University Research Institute**End date:** 19/10/2018**Duration in hours:** 5 hours**5 Training title:** Fundamento Moleculares de la Medicina**Awarding entity:** Real Academia Nacional de Medicina **Type of entity:** Royal Academy**End date:** 24/05/2018**Duration in hours:** 15 hours**6 Training title:** 1st International Workshop on Brain reorganization after Spinal Cord Injury**Awarding entity:** Servicio de Salud de Castilla-La Mancha**Type of entity:** Administrative Body of the National Health System**End date:** 2011**7 Training title:** Avances tecnológicos y sus implicaciones a la atención a personas con Alzheimer y otras demencias**Awarding entity:** Instituto de Mayores y Servicios Sociales**Type of entity:** Inmerso**End date:** 2011**8 Training title:** Envejecimiento. La investigación en España y Europa**Awarding entity:** Instituto de Mayores y Servicios Sociales**Type of entity:** inmerso**End date:** 2011**9 Training title:** Of Minds and Language: An Encounter with Noam Chomsky**Awarding entity:** Universidad del País Vasco**Type of entity:** University**End date:** 06/2006**Duration in hours:** 40 hours**Language skills**

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	A2	B1	A1	A2	A1
English	C1	C2	C1	C1	C2



## Teaching experience

### Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Determinación de la asociación de la microbiota intestinal con la actividad dinámica cortical mediante modelos de IA.  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** J. Ignacio Serrano; M. Dolores del Castillo  
**Entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Madrid, Madrid, Comunidad de, Spain  
**Student:** Daniel Carrillo Martín  
**Date of reading:** 2028
- 2 Project title:** Optimización de las redes de conectividad cortical mediante neuromodulación para la preservación de las funciones cognitivas ante el daño cerebral  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** J. Ignacio Serrano Moreno; Ángel Torrado Carvajal  
**Entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Madrid, Madrid, Comunidad de, Spain  
**Student:** Ignacio de Llano Varela  
**Date of reading:** 2028
- 3 Project title:** Estudio de la percepción sensorial multimodal para la optimización de los interfaces cerebro-máquina basados en imaginación motora  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** J. Ignacio Serrano; Álvaro Gutiérrez  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**City of entity:** Madrid, Madrid, Comunidad de, Spain  
**Student:** Mateo Fortich Mora  
**Date of reading:** 2027
- 4 Project title:** Determinación de perfiles de actividad cerebral cortical en reposo y sus correlatos emocionales y cognitivos.  
**Type of project:** Master's Thesis  
**Co-director of thesis:** José Ignacio Serrano Moreno  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Spain  
**Student:** Lorena Torres Núñez de Prado  
**Date of reading:** 09/2026
- 5 Project title:** Optimización de redes neuronales funcionales para minimizar el daño en caso de degeneración o lesión  
**Type of project:** Master's Thesis  
**Co-director of thesis:** José Ignacio Serrano Moreno; José María Ruiz Sánchez de León  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Spain  
**Student:** Ignacio de Llano Varela  
**Obtained qualification:** 9



**Date of reading:** 15/09/2025

- 6** **Project title:** Sincronización neural y dinámicas sociales: Desarrollo de un BCI colaborativo con EEG  
**Type of project:** Master's Thesis  
**Co-director of thesis:** José Ignacio Serrano  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Spain  
**Student:** Mateo Fortich Mora  
**Obtained qualification:** 9  
**Date of reading:** 08/09/2023  
**Quality recognition:** No
- 7** **Project title:** Web app development for the computational modeling of an Iowa Gambling Task (IGT) player  
**Type of project:** Bachelor's Thesis  
**Co-director of thesis:** M. Dolores del Castillo Sobrino; José Ignacio Serrano Moreno; Raquel Fuentetaja Pizán  
**Entity:** Universidad Carlos III de Madrid **Type of entity:** University  
**City of entity:** Spain  
**Student:** Maialen Espí Landa  
**Date of reading:** 2023
- 8** **Project title:** Estudio de los objetivos de actividad cerebral para una interfaz-cerebro computador basada en microestados para la mejora cognitiva en la enfermedad de Parkinson  
**Type of project:** Bachelor's Thesis  
**Co-director of thesis:** J. Ignacio Serrano; Norberto Malpica  
**Entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Madrid,  
**Student:** Sandra Torres Roldán  
**Obtained qualification:** 9  
**Date of reading:** 21/12/2021
- 9** **Project title:** Evolutionary algorithm for the optimization of graph models of brains  
**Type of project:** Master's Thesis  
**Co-director of thesis:** Antonio Barrientos  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**Student:** Enrique Rodríguez Sebastián  
**Date of reading:** 24/07/2018
- 10** **Project title:** Desarrollo de algoritmos de análisis inteligente, visualización de datos y procesamiento de señales neurofisiológicas para estudio de enfermedades neurodegenerativas  
**Type of project:** Master's Thesis  
**Co-director of thesis:** Antonio Miguel López Pérez  
**Entity:** Universidad de Oviedo **Type of entity:** University  
**City of entity:** Gijón,  
**Student:** José Ignacio de la Hera Cibrián  
**Date of reading:** 19/07/2018
- 11** **Project title:** Empleo de interfaces cerebro-máquina basados en electroencefalografía de superficie, como propuesta de evaluación y tratamiento de la función motora del miembro superior en el ictus  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Jaime Ibáñez; Franciso Molina  
**Type of entity:** University



**Entity:** Universidad Rey Juan Carlos Facultad / Escuela:  
Facultad de Ciencias de la Salud  
**City of entity:** Alcorcón, Madrid, Comunidad de, Spain  
**Student:** Esther Monge Pereira  
**Date of reading:** 26/06/2017

- 12** **Project title:** Diseño e implementación de un monitor postural de columna vertebral  
**Type of project:** Bachelor's Thesis  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**Student:** Marcos Pérez  
**Date of reading:** 2017
- 13** **Project title:** Diseño e implementación de una interfaz electromecánica para la conducción de sillas de ruedas motorizadas  
**Type of project:** Bachelor's Thesis  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**Student:** José Antonio Cue Palero  
**Date of reading:** 2017
- 14** **Project title:** Entorno de realidad virtual controlado en tiempo real por señales motoras para la rehabilitación del miembro superior en pacientes con daño cerebral  
**Type of project:** Bachelor's Thesis  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Student:** Hugo Kumpel del Castillo  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 07/2016
- 15** **Project title:** Diseño e Implementación de un dispositivo de inducción de estímulos mecánicos para el estudio del dolor neuropático  
**Type of project:** Bachelor's Thesis  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**Student:** María Belén Sanromán Sasiambarrena  
**Date of reading:** 02/2016
- 16** **Project title:** Diseño e implementación de un sistema BCI para el control del movimiento en realidad virtual inmersiva  
**Type of project:** Bachelor's Thesis  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**City of entity:** madrid, Madrid, Comunidad de, Spain  
**Student:** Santiago Olalde Fiandor  
**Date of reading:** 02/09/2015
- 17** **Project title:** Interfaces Online Cerebro-Computador Naturales Basados en Ritmos Motores para la Rehabilitación de Disfunciones del Movimiento.  
**Type of project:** Doctoral thesis  
**Entity:** Universidad de Zaragoza Facultad / Escuela: **Type of entity:** University  
E.T.S.I. Telecomunicaciones  
**City of entity:** Zaragoza, Aragón, Spain  
**Student:** Jaime Ibáñez Pereda  
**Date of reading:** 30/10/2014



**18** **Project title:** Modelado Computacional Cognitivo de la Adquisición de la Morfología Verbal. Aplicación a la Caracterización y Diagnóstico de Trastornos Cognitivos.

**Type of project:** Doctoral thesis

**Entity:** U.N.E.D. Facultad / Escuela: E.T.S.I. Informática **Type of entity:** University

**City of entity:** Madrid, Madrid, Comunidad de, Spain

**Student:** Jesús Oliva Gonzalo

**Date of reading:** 27/09/2013

**19** **Project title:** Modelo Computacional Cognitivo de Toma de Decisiones Basado en el Conocimiento.

**Type of project:** Doctoral thesis

**Entity:** UCM Facultad / Escuela: Facultad de Informática **Type of entity:** University

**City of entity:** Madrid, Madrid, Comunidad de, Spain

**Student:** Ángel Iglesias Sánchez

**Date of reading:** 26/02/2013

## Courses and seminars given

**1** **Type of event:** Seminar

**Name of the event:** Retos de la IA - "Modelos Cognitivos". Escuela de Verano AIHUB-CSIC 2023

**Organising entity:** AIHUB - CSIC

**Type of entity:** Public Research Body

**Hours of teaching:** 1

**Teaching language:** Spanish

**Teaching date:** 04/07/2023

**Type of participation:** Participatory - invited / keynote talk

**2** **Type of event:** Seminar

**Name of the event:** "Realidades de la Ingeniería Biomédica: de la Ingeniería de Rehabilitación al Diagnóstico por imagen", XXIII conmemoración de los Cursos de Verano de la URJC

**City organizing entity:** Madrid, Comunidad de, Spain

**Organising entity:** Universidad Rey Juan Carlos

**Type of entity:** University

**Hours of teaching:** 2

**Teaching language:** Spanish

**Teaching date:** 04/07/2022

**Type of participation:** Participatory - invited / keynote talk

**3** **Type of event:** Seminar

**Name of the event:** Rehabilitación de la Hemiplejía de Miembro Superior: Realidad Virtual

**Organising entity:** Hermanas Hospitalarias del Sagrado Corazón de Jesús **Type of entity:** Healthcare Institutions

**Hours of teaching:** 2

**Teaching date:** 17/10/2018

**4** **Type of event:** Curso de verano

**Name of the event:** Interfaces Cerebro-Computador para la rehabilitación del accidente cerebrovascular. Curso de verano Tecnología Biónica en Medicina

**Organising entity:** Universidad San Pablo CEU

**Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 06/07/2018

**5** **Type of event:** Seminar

**Name of the event:** Interfaces cerebro-máquina basados en electroencefalografía para neurorehabilitación. Máster Universitario en Ingeniería Biomédica.



**Organising entity:** Universidad San Pablo CEU  
**Hours of teaching:** 3  
**Teaching date:** 08/05/2018

**Type of entity:** University

**6 Type of event:** Seminar

**Name of the event:** Innovación tecnológica para la rehabilitación cognitiva

**Organising entity:** Universidad Francisco de Vitoria **Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 06/03/2018

**7 Type of event:** Curso de verano

**Name of the event:** Interfaces Cerebro-Computador para la rehabilitación del accidente cerebrovascular. Curso de verano Tecnología Biónica en Medicina

**Organising entity:** Universidad San Pablo CEU **Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 12/07/2017

**8 Type of event:** Seminar

**Name of the event:** Innovación tecnológica para la rehabilitación cognitiva en daño cerebral

**Organising entity:** Universidad Francisco de Vitoria **Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 17/02/2017

**9 Type of event:** Seminar

**Name of the event:** Brain-Computer Interfaces for Rehabilitation Robotics. Pre-congress seminar in Rehabilitation Robotics.

**City organizing entity:** Oswestry, United Kingdom

**Organising entity:** European Society for Movement Analysis in Adults and Children **Type of entity:** Associations and Groups

**Hours of teaching:** 2

**Teaching date:** 27/09/2016

**Teaching language:** English

**10 Type of event:** Curso de verano

**Name of the event:** Interfaces Cerebro-Computador para la rehabilitación del accidente cerebrovascular. Curso de verano Tecnología Biónica en Medicina

**Organising entity:** Universidad San Pablo CEU **Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 13/07/2016

**11 Type of event:** Seminar

**Name of the event:** Avances tecnológicos para la rehabilitación cognitiva en daño cerebral

**Organising entity:** Universidad Francisco de Vitoria **Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 19/02/2016

**12 Type of event:** Curso de verano

**Name of the event:** Interfaces Cerebro-Computador para la rehabilitación del accidente cerebrovascular. Curso de verano Tecnología Biónica en Medicina

**Organising entity:** Universidad San Pablo CEU **Type of entity:** University

**Hours of teaching:** 2

**Teaching date:** 06/2015



- 13** **Type of event:** Seminar  
**Name of the event:** Últimos Avances Tecnológicos en la Neurorehabilitación del Accidente Cerebrovascular (ACV). II Curso de Formación traslacional para la Neurorehabilitación  
**Organising entity:** Universidad Francisco de Vitoria **Type of entity:** University  
**Hours of teaching:** 1  
**Teaching date:** 05/11/2014
- 14** **Type of event:** Seminar  
**Name of the event:** Introducción a las Arquitecturas Cognitivas, el Modelado Cognitivo y la Consciencia Artificial  
**Organising entity:** Curso de Máster en la Escuela Técnica de Informática, Universidad Politécnica de Madrid (UPM) **Type of entity:** University  
**Hours of teaching:** 4  
**Teaching date:** 10/2011
- 15** **Type of event:** Seminar  
**Name of the event:** Agentes de Información: Casos prácticos desarrollados en el IAI-CSIC  
**Organising entity:** Escuela Técnica de Informática, Universidad Politécnica de Madrid (UPM) **Type of entity:** University  
**Hours of teaching:** 2  
**Teaching date:** 12/2009
- 16** **Type of event:** Seminar  
**Name of the event:** Analysis and Knowledge Discovery on Adámek Data  
**Organising entity:** European Centre for Medical Informatics, Statistics and Epidemiology. Charles University and Academy of Sciences of Czech Republic **Type of entity:** Public Research Body  
**Hours of teaching:** 2  
**Teaching date:** 10/10/2006
- 17** **Type of event:** Seminar  
**Name of the event:** A Survey on the Reseach Topics of the Industrial Automation Insitute -CSIC  
**Organising entity:** European Centre for Medical Informatics, Statistics and Epidemiology. Charles University and Academy of Sciences of Czech Republic **Type of entity:** Public Research Body  
**Hours of teaching:** 2  
**Teaching date:** 09/06/2005

## Other activities/achievements not included above

- 1** **Description of the activity:** Mentor del programa de mentorazgo CAMINO, del CSIC  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**End date:** 2026
- 2** **Description of the activity:** Mentor del programa de mentorazgo CAMINO, del CSIC  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**End date:** 2025



- 3** **Description of the activity:** Tutor de prácticas "4º E.S.O. + Empresa" de la Comunidad de Madrid  
**Organising entity:** Comunidad de Madrid **Type of entity:** Regional government  
**End date:** 2025
- 4** **Description of the activity:** Tutor de prácticas externas del Grado en Bioingeniería de la Universidad Rey Juan Carlos. Estudiante: Lorena García  
**Organising entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**End date:** 2025
- 5** **Description of the activity:** Tutor de prácticas externas del Grado en Bioingeniería de la Universidad Rey Juan Carlos. Estudiante: Enrique Almazán  
**Organising entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**End date:** 2024
- 6** **Description of the activity:** Tutor de prácticas externas del Grado en Bioingeniería de la Universidad Rey Juan Carlos. Estudiante: Álvaro Sosa  
**Organising entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**End date:** 2024
- 7** **Description of the activity:** Elaboración de la programación académica de las asignaturas de Señales Biomédicas, Ingeniería de Control, Procesamiento de imagen biomédica basado en IA, Robótica y Técnicas de monitorización, diagnóstico y tratamiento, del grado de nueva creación en Ingeniería Biomédica de la UFV  
**Organising entity:** Universidad Francisco de Vitoria **Type of entity:** University  
**End date:** 01/2020
- 8** **Description of the activity:** Tutor de prácticas "4º E.S.O. + Empresa" de la Comunidad de Madrid  
**Organising entity:** Comunidad de Madrid **Type of entity:** Regional government  
**End date:** 2014

## Scientific and technological experience

### Research and development groups/teams

**Name of the group:** NeuroMechanics & Rehabilitation

**Name of principal investigator:** Sergio Lerma Lara

**Number of members in the group:** 11

**Type of collaboration:** Co-authorship of projects and their development

**City of group:** Madrid, Madrid, Comunidad de, Spain

**Affiliation entity:** Centro Superior de Estudios Universitarios La Salle

**Type of entity:** University Centres and Structures and Associated Bodies

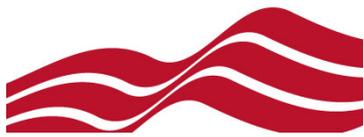
**Start date:** 10/2016



## Scientific or technological activities

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

- 1** **Name of the project:** ECS4DRES. Electronic Components and Systems for flexible, coordinated and resilient Distributed Renewable Energy Systems  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Raúl M. del Toro  
**Nº of researchers:** 100  
**Funding entity or bodies:** Comisión Europea **Type of entity:** EU  
**Type of participation:** Team member  
**Name of the programme:** Chips Joint Undertaking  
**Code according to the funding entity:** 101139790  
**Start-End date:** 01/07/2024 - 30/06/2027  
**Total amount:** 27.000.000 € **Sub-project amount:** 337.500 €  
**Percentage as grant:** 337.500  
**Dedication regime:** Part time
- 2** **Name of the project:** Deep learning processing and analysis of temporal series of multimodal biosignals (EEG, EMG, IMUs, ...) for neuroscience  
**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** Regional  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**City of entity:** Madrid, Madrid, Comunidad de, Spain  
**Name principal investigator (PI, Co-PI....):** J. Ignacio Serrano Moreno  
**Nº of researchers:** 2  
**Funding entity or bodies:** Comunidad de Madrid **Type of entity:** Regional government  
**Type of participation:** Principal investigator  
**Name of the programme:** Programa de Empleo Juvenil 2023  
**Code according to the funding entity:** EI-GARJUV-CAM23-0013 - PEJ-2023-AI/SAL-GL-27391  
**Start-End date:** 05/2024 - 05/2026 **Duration:** 2 years  
**Total amount:** 56.000 € **Sub-project amount:** 56.000 €  
**Percentage as grant:** 100
- 3** **Name of the project:** BRAINT. Characterization of gut-brain profiles and relationships by spontaneous EEG activity and intestinal microbiota  
**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** National  
**Degree of contribution:** Scientific coordinator **Type of entity:** State agency



**Entity where project took place:** Consejo Superior de Investigaciones Científicas

**Name principal investigator (PI, Co-PI....):** M. Dolores del Castillo

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Universidades **Type of entity:** AEI

**Type of participation:** Team member

**Name of the programme:** Proyectos de Generación de Conocimiento

**Code according to the funding entity:** PID2023-150271NB-C21

**Start-End date:** 2024 - 2026

**Duration:** 3 years

**Total amount:** 200.000 €

**Sub-project amount:** 191.500 €

**Percentage as grant:** 100

**Dedication regime:** Part time

**Applicant's contribution:** Investigador – Desarrollo de algoritmos de IA para la optimización del consumo energético de máquinas industriales.

**4 Name of the project:** PowerizedD. Digitalization of Power Electronic Applications within Key Technology Value Chains

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Rodolfo Haber

**Funding entity or bodies:**

Comisión Europea

**Type of entity:** EU

**Type of participation:** Team member

**Name of the programme:** HORIZON.2.4 - Digital, Industry and Space

**Code according to the funding entity:** 101096387

**Start-End date:** 2023 - 2025

**Total amount:** 72.752.212,75 €

**Dedication regime:** Part time

**5 Name of the project:** DISCOVER2WALK. VALIDACION TECNICA Y ECONOMICA DE LA PLATAFORMA ROBOTICA DISCOVER2WALK PARA EL ENTORNO CLINICO

**Type of project:** Technical viability study

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Eduardo Rocon

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Investigación

**Type of entity:** AEI

**Code according to the funding entity:** PDC2022-133898-C31

**Start-End date:** 2022 - 2025

**Dedication regime:** Part time

**6 Name of the project:** NETremor. DEFINICIÓN DE METRICAS Y VALIDACIÓN CLÍNICA DE UN SISTEMA DIGITAL PARA LA MONITORIZACIÓN REMOTA DE LOS TRASTORNOS DEL MOVIMIENTO

**Type of project:** Basic research (including archaeological digs, etc)

**Geographical area:** National

**Degree of contribution:** Researcher



**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Eduardo Rocon

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Investigación **Type of entity:** AEI

**Type of participation:** Team member

**Name of the programme:** TRANSICIÓN ECOLÓGICA Y DIGITAL

**Code according to the funding entity:** TED2021-130174B-C31

**Start-End date:** 2022 - 2024

**Dedication regime:** Part time

**7 Name of the project:** NET-MD. PLATAFORMA PARA EL SEGUIMIENTO DE TRASTORNOS DEL MOVIMIENTO

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Eduardo Rocon de Lima

**Funding entity or bodies:**

Ministerio de Economía y Hacienda **Type of entity:** Ministerio

**City funding entity:** Madrid, Madrid, Comunidad de, Spain

**Type of participation:** Team member

**Name of the programme:** RETOS COLABORACIÓN

**Code according to the funding entity:** RTC-2015-3967-1

**Start-End date:** 01/01/2016 - 31/12/2018

**8 Name of the project:** NEUROMOD. DESARROLLO Y VALIDACIÓN CLÍNICA DE UNA PLATAFORMA DE REHABILITACIÓN BASADA EN NEUROMODULACIÓN PARA PACIENTES CON TRASTORNOS DEL CONTROL MOTOR

**Geographical area:** National

**Degree of contribution:** Scientific coordinator

**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

**City of entity:** Madrid, Madrid, Comunidad de, Spain

**Name principal investigator (PI, Co-PI....):** M. Dolores del Castillo Sobrino; Eduardo Rocon de Lima

**Funding entity or bodies:**

Ministerio de economía y competitividad

**Type of participation:** Team member

**Name of the programme:** RETOS DE LA SOCIEDAD

**Code according to the funding entity:** DPI2015-68664-C4-1-R

**Start-End date:** 01/01/2016 - 31/12/2018

**Duration:** 3 years

**Sub-project amount:** 190.000 €

**Percentage as grant:** 100

**Dedication regime:** Part time

**Applicant's contribution:** Coordinador científico e investigador – Desarrollo de algoritmos de IA para la decodificación de la señal cerebral, análisis inteligente y caracterización de la señal cerebral, desarrollo de feedback en realidad virtual.



**9 Name of the project:** XoSoft. SOFT MODULAR BIOMIMETIC EXOSKELETON TO ASSIST PEOPLE WITH MOBILITY IMPAIRMENTS

**Type of project:** Research and development, including transfer

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Eduardo Rocon de Lima

**Funding entity or bodies:**

Comisión Europea

**Type of entity:** Comisión Europea

**City funding entity:** Madrid, Madrid, Comunidad de, Spain

**Type of participation:** Team member

**Name of the programme:** HORIZON2020 - H2020 ICT-24-2015

**Code according to the funding entity:** 688175

**Start-End date:** 01/01/2016 - 31/12/2018

**Total amount:** 5.422.863,75 €

**Applicant's contribution:** Investigador – Desarrollo de algoritmos de IA para el análisis de la señal EMG y de la marcha.

**10 Name of the project:** CP-WALKER

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Eduardo Rocon

**Nº of researchers:** 8

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

**Type of entity:** Government

**Type of participation:** Team member

**Name of the programme:** Plan Nacional del Ministerio de Economía y Competitividad.

**Code according to the funding entity:** DPI2012-39133-C03-01

**Start date:** 2013

**Duration:** 2 years

**Participating entity/entities:** CAR-CSIC; Hospital Niño Jesús de Madrid; Instituto de Biomecánica de Valencia (IBV)

**Sub-project amount:** 131.040 €

**Percentage as grant:** 100

**Dedication regime:** Part time

**Applicant's contribution:** Investigador - Procesamiento de señal cerebral, análisis inteligente y caracterización de características de la señal cerebral, desarrollo de interfaz cerebro-robot en tiempo real.

**11 Name of the project:** NEUROTREMOR

**Type of project:** Basic research (including archaeological digs, etc)

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** José Luis Pons

**Nº of researchers:** 10

**Funding entity or bodies:**

Comisión Europea

**Type of entity:** European administration

**Type of participation:** Team member



**Name of the programme:** SEVENTH FRAMEWORK PROGRAMME-ICT.

**Code according to the funding entity:** 287739

**Start date:** 2013

**Duration:** 2 years

**Participating entity/entities:** AAU; CAR-CSIC; IBV; ...

**Total amount:** 3.370.629 €

**Dedication regime:** Part time

**Applicant's contribution:** Desarrollo de algoritmos de IA para la decodificación de la señal cerebral, análisis inteligente y caracterización de la señal cerebral (EEG) y de la estructura cerebral (MRI).

**12 Name of the project:** BRAIN-COMPUTER INTERFACE FOR COGNITIVE TRAINING AND DOMOTIC ASSISTANCE AGAINST THE EFFECTS OF AGING

**Name principal investigator (PI, Co-PI....):** Dr. Roberto Hornero; Dra. M. Dolores del Castillo

**Nº of researchers:** 5

**Funding entity or bodies:**

Proyectos Cero – Programa sobre Envejecimiento. Fundación General CSIC.

**Start date:** 2012

**Duration:** 2 years

**Participating entity/entities:** CAR-CSIC; CRE León envejecimiento; Universidad de Valladolid

**13 Name of the project:** HYPER: DISPOSITIVOS HÍBRIDOS NEUROPROTÉSICOS Y NEURORROBÓTICOS PARA COMPENSACIÓN FUNCIONAL Y REHABILITACIÓN DE TRASTORNOS DEL MOVIMIENTO

**Name principal investigator (PI, Co-PI....):** Dr. J. Luis Pons

**Funding entity or bodies:**

CONSOLIDER-INGENIO 2010

**Start date:** 2010

**Duration:** 4 years

**Participating entity/entities:** Centro de Tecnologías Electroquímicas; FATRONIK; HNPT; Instituto de Automática Industrial ; IBEC; UNIZAR; Universidad Rey Juan Carlos; ...

**14 Name of the project:** AN AMBULATORY BCI-DRIVEN TREMOR SUPPRESSION SYSTEM BASED ON FUNCTIONAL ELECTRICAL STIMULATION. TREMOR

**Name principal investigator (PI, Co-PI....):** Dr. Ramón Ceres

**Nº of researchers:** 4

**Funding entity or bodies:**

SEVENTH FRAMEWORK PROGRAMME. ICT-2007.7.2

**Start date:** 2009

**Duration:** 3 years

**Participating entity/entities:** ..; AAU; CAR-CSIC; IBV; ULB; URT

**15 Name of the project:** LIS: LÍNEA ÍNTEGRAMENTE SEGURA. ANALIZADOR DE TRÁFICO PARA OPERADORES Empresa/Administración financiadora: PROFIT FIT-360000-2007-64

**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino

**Nº of researchers:** 2

**Start date:** 2007

**Duration:** 2 years

**Participating entity/entities:** Instituto de Automática Industrial ; OPTENET; S.A.

**16 Name of the project:** TELEMACO: SISTEMA DE DETECCIÓN Y ALERTA CONTRA EL ACOSO TELEMÁTICO A MENORES Empresa/Administración financiadora: PROFIT FIT-360000-2007-65

**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino

**Nº of researchers:** 2

**Start date:** 2007

**Duration:** 2 years

**Participating entity/entities:** Instituto de Automática Industrial ; OPTENET; S.A.



- 17** **Name of the project:** ELEC Fra II: SISTEMA PARA LA DETECCIÓN Y ELIMINACIÓN DEL FRAUDE ELECTRÓNICO VÍA CORREO ELECTRÓNICO E INTERNET  
**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino  
**Nº of researchers:** 2  
**Funding entity or bodies:**  
MTIYC  
PROFIT FIT-360000-2006-7  
**Start date:** 2006 **Duration:** 1 year  
**Participating entity/entities:** Instituto de Automática Industrial ; OPTENET; S.A.
- 18** **Name of the project:** HESPERIA: SISTEMA AVANZADO DE AYUDA EN LA TOMA DE DECISIONES EN GESTIÓN DE CRISIS Y MODELADO DE DECISIONES  
**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino; M.C. García Alegre; A. Ribeiro  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
CENIT  
MTIYC  
**Start date:** 2006 **Duration:** 3 years  
**Participating entity/entities:** ...; IAI.; SOLUCIONA; TECHNOSAFE; UNION FENOSA
- 19** **Name of the project:** ELEC Fra I: SISTEMA PARA LA DETECCIÓN Y ELIMINACIÓN DEL FRAUDE ELECTRÓNICO VÍA CORREO ELECTRÓNICO E INTERNET Entidad financiadora: MCYT, PROFIT-360000-2005-9  
**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino  
**Nº of researchers:** 3  
**Start date:** 2005 **Duration:** 1 year  
**Participating entity/entities:** Instituto de Automática Industrial ; RED EDUCATIVA; S.A.
- 20** **Name of the project:** INTEGRACIÓN DE RESONANCIA MAGNÉTICA Y ELECTROENCEFALOGRAFÍA. APLICACIÓN AL FUNDAMENTO Y USO DE INTERFACES CEREBRO COMPUTADOR POR DISCAPACITADOS  
**Name principal investigator (PI, Co-PI....):** Dr. Luis J. Barrios Bravo  
**Nº of researchers:** 4  
**Funding entity or bodies:**  
MCYT  
TEC2005-07801-C03-01  
**Start date:** 2005 **Duration:** 3 years  
**Participating entity/entities:** Instituto de Automática Industrial ; Univ. Rey Juan Carlos; Univ. Zaragoza
- 21** **Name of the project:** ICONOSOL: SISTEMA PARA IDENTIFICACIÓN, CLASIFICACIÓN Y FILTRADO AUTOMÁTICO DE CORREO NO SOLICITADO  
**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino  
**Nº of researchers:** 2  
**Funding entity or bodies:**  
MCYT  
PROFIT FIT-360000-2004-88



**Start date:** 2004

**Participating entity/entities:** Instituto de Automática Industrial ; RED EDUCATIVA; S.A.

**22 Name of the project:** CAMOFI. CONSTRUCCIÓN AUTOMÁTICA DE MOTORES DE FILTRADO ESPECÍFICOS PARA CONTENIDOS EN INTERNET

**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino

**Nº of researchers:** 2

**Funding entity or bodies:**

MCYT. PROFIT FIT-150500-2003-373

**Start date:** 2003

**Participating entity/entities:** Instituto de Automática Industrial ; RED EDUCATIVA S.A

**23 Name of the project:** DIAGNÓSTICO REMOTO DE FALLOS EN SISTEMAS MECATRONICOS

**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino

**Nº of researchers:** 2

**Funding entity or bodies:**

MCYT. PROFIT FIT-020200-2003-77

**Start date:** 2003

**Duration:** 1 year

**Participating entity/entities:** Instituto de Automática Industrial

**Total amount:** 8.000 €

**24 Name of the project:** SELECTA. CLASIFICACIÓN AUTOMÁTICA DE CONTENIDOS EN INTERNET

**Name principal investigator (PI, Co-PI....):** Dra. M<sup>a</sup> Dolores del Castillo Sobrino

**Nº of researchers:** 4

**Funding entity or bodies:**

MCYT . PROFIT FIT-070000-2001-193

**Start date:** 2001

**Duration:** 1 year - 4 months

**Participating entity/entities:** Instituto de Automática Industrial

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

**1 Name of the project:** COREEG. Emocional and Cognitive correlates between graph-based functional connectivity and microstate dynamics, and spontaneous EEG activity.

**Degree of contribution:** Coordinator of total project, network or consortium

**Name principal investigator (PI, Co-PI....):** José Ignacio Serrano

**Nº of researchers:** 1

**Participating entity/entities:** Consejo Superior de Investigaciones Científicas

**Funding entity or bodies:**

Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

**Start date:** 2022

**Duration:** 3 years

**Total amount:** 5.000 €

**2 Name of the project:** MORICOV. Desarrollo de modelos de estimación del riesgo de contagio por Covid-19 en sujetos asintomáticos

**Degree of contribution:** Coordinator of total project, network or consortium

**Name principal investigator (PI, Co-PI....):** José Ignacio Serrano; M. Dolores del Castillo

**Nº of researchers:** 2

**Participating entity/entities:** Consejo Superior de Investigaciones Científicas

**Funding entity or bodies:**

Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency**Start date:** 2020**Duration:** 1 year**Total amount:** 20.000 €**3 Name of the project:** INTEGRACIÓN DE MEDIDAS BIOMÉTRICAS Y COGNITVAS PARA LA OPTIMIZACIÓN DE BÚSQUEDAS DIGITALES**Degree of contribution:** Scientific coordinator**Name principal investigator (PI, Co-PI...):** María Dolores del Castillo Sobrino; José Ignacio Serrano Moreno**Nº of researchers:** 2**Participating entity/entities:** Consejo Superior de Investigaciones Científicas**Funding entity or bodies:**

Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency**Start date:** 01/01/2013**Duration:** 3 years**4 Name of the project:** Modelado de Usuario de la Herramienta AirFit y Generación de Programas de Actividad Física Basados en la Utilización de Algoritmos Genéticos.**Name principal investigator (PI, Co-PI...):** J. Ignacio Serrano; M. Dolores del Castillo**Nº of researchers:** 2**Participating entity/entities:** Centre d'Estudis d'Alt Rendiment Esportiu ; Technologic Sport Company**Funding entity or bodies:**

Technologic Sport Company.

**Start date:** 2009**Duration:** 1 year**5 Name of the project:** HESPERIA: Homeland security. Tecnologías para la seguridad integral en espacios públicos e infraestructuras**Type of project:** Research and development, including transfer**Entity where project took place:** Consejo Superior de Investigaciones Científicas**Degree of contribution:** Researcher**Type of entity:** State agency**Name principal investigator (PI, Co-PI...):** M. Dolores del Castillo**Nº of researchers:** 3**Funding entity or bodies:**

Technosafe, S.A.

**Type of entity:** Business**Type of project:** Cooperation**Name of the programme:** MTIYC, CDTI - CENIT**Start date:** 2006**Duration:** 5 years**Total amount:** 23.000.000 €**Narrative explanation:** Rol: Investigador - Desarrollo de un modelo computacional humano de toma de decisiones en situaciones de emergencia.**6 Name of the project:** FAVIT: FABRICACIÓN DE VIDRIO TEMPLADO**Degree of contribution:** Industrial**Nº of researchers:** 2**Participating entity/entities:** CRIVISA Cristalerías S.A.; Grupo Bormioli Rocco; Instituto de Automática Industrial ; ICV-CSIC.**Funding entity or bodies:**

CRIVISA Cristalerías S.A.

**Start date:** 2001**Duration:** 2 years

## Results

### Industrial and intellectual property

**Title registered industrial property:** METHOD FOR SORTING E-MAIL MESSAGES INTO WANTED MAIL AND UNWANTED MAIL**Inventors/authors/obtainers:** María Dolores del Castillo Sobrino; José Ignacio Serrano Moreno; Ros Torrecillas Salvador**Entity holder of rights:** Consejo Superior de Investigaciones Científicas**Nº of application:** WO2007ES70026 20070205**Country of inscription:** Spain, Madrid, Comunidad de**Date of register:** 05/02/2007**Conferral date:** 23/08/2007

### Results derived from specialized and transfer activities, not included in previous sections

- 1 Description:** Transferencia de sistema de realidad virtual para rehabilitación de miembro superior en daño cerebral, para su validación clínica.

**Name of the principal Investigator (PI):** José Ignacio Serrano Moreno**Name of the Co-principal investigator (Co-PI):** M. Dolores del Castillo Sobrino**Degree of contribution:** Coordinator of total project, network or consortium**New techniques or equipment:** No**Results for improvement of products:** Yes**Expert technologist:** Yes**Collaboration agreements:** Yes**Geographical area:** Regional**Target entity or bodies:**

Grupo Residencial Los Nogales

**Type of entity:** Healthcare Institutions**City receiving entity:** Madrid, Comunidad de, Spain**Start date:** 11/2016**Duration:** 1 year

- 2 Description:** Transferencia de sistema de realidad virtual para rehabilitación de miembro superior en daño cerebral, para su validación clínica.

**Name of the principal Investigator (PI):** José Ignacio Serrano Moreno**Name of the Co-principal investigator (Co-PI):** M. Dolores del Castillo Sobrino**Degree of contribution:** Coordinator of total project, network or consortium**New techniques or equipment:** No**Results for improvement of products:** Yes**Expert technologist:** Yes**Collaboration agreements:** Yes**Geographical area:** National**Target entity or bodies:**

Grupo Amma

**Type of entity:** Business**Start date:** 11/2016**Duration:** 1 year



- 3** **Description:** Creación de empresa spin-off  
**Name of the principal Investigator (PI):** Rafael Raya López  
**Name of the Co-principal investigator (Co-PI):** José Ignacio Serrano Moreno  
**Degree of contribution:** Socio fundador, coordinador científico  
**Spin-off R&D companies:** Yes  
**Expert technologist:** Yes  
**Geographical area:** European Union  
**Target entity or bodies:**  
 Werium Assistive Solutions **Type of entity:** Business  
**City receiving entity:** Madrid, Madrid, Comunidad de, Spain  
**Start date:** 11/2015 **Duration:** 3 years

## Scientific and technological activities

### Scientific production

- 1** **H index:** 24  
**Date of application:** 16/01/2026  
**Source of H-Index:** GOOGLE SCHOLAR
- 2** **H index:** 17  
**Date of application:** 16/01/2026  
**Source of H-Index:** SCOPUS

### Publications, scientific and technical documents

- 1** Rocío Llamas-Ramos; Jorge Juan Alvarado-Omenat; Juan Luis Sánchez-González; Ismael Sanz-Esteban; J. Ignacio Serrano; Inés Llamas-Ramos. Different Patterns of Cortical Electrical Activity by Tactile, Acoustic and Visual Stimuli in Infants: An EEG Exploratory Study. *Diagnostics*. 15 - 23, pp. 3067. 2025. Available on-line at: <<https://www.mdpi.com/2075-4418/15/23/3067>>. ISSN 2075-4418  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 6 **Corresponding author:** No  
**Impact source:** WOS (JCR) **Category:** Science Edition - MEDICINE, GENERAL & INTERNAL  
**Impact index in year of publication:** 3.3 **Journal in the top 25%:** Yes  
**Position of publication:** 57 **No. of journals in the cat.:** 332  
**Relevant publication:** Yes
- 2** J Ignacio Serrano; Silvia Cruz-Gil; Cristina M Fernández; Lara P Fernández; Ana Sobrino-Santos; Isabel Espinosa-Salinas; Carolina Maestre; María-Jesús Latasa; Manuel Cebrián; Ricardo Ramos-Ruiz; others. Gut microbiota profiles are associated with different spontaneous cortical activity in healthy older people. *Scientific Reports*. 15 - 1, pp. 31590 - 31590. Nature Publishing Group UK London, 2025.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 11 **Corresponding author:** Yes

**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3.9  
**Position of publication:** 25

**Category:** MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 135

**Relevant publication:** Yes

- 3** María Galán-Olleros; Elena González-Alguacil; Víctor Soto-Insuga; María Teresa Vara-Arias; Nelmar Valentina Ortiz-Cabrera; J Ignacio Serrano; Rosa M Egea-Gámez; Juan José García-Peñas; Ignacio Martínez-Caballero. Orthopedic Conditions and Interplay with Functional Abilities and MECP2 Variant Subtype in Rett Syndrome Patients. *Journal of Autism and Developmental Disorders*. 55 - 8, pp. 2873 - 2883. Springer US New York, 2025.

**Type of production:** Scientific paper  
**Position of signature:** 6

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 9  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2.8  
**Position of publication:** 32

**Corresponding author:** No  
**Category:** PSYCHOLOGY, DEVELOPMENTAL  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 94

**Relevant publication:** Yes

- 4** Rocío Llamas-Ramos; Juan Luis Sánchez-González; Jorge Juan Alvarado-Omenat; Ismael Sanz-Esteban; J Ignacio Serrano; Inés Llamas-Ramos. fNIRS Feasibility to Measure Brain Oxygenation Patterns of the Motor Cortex in Relation to Massage and Reflex Locomotion Therapy in Babies. *Journal of Clinical Medicine*. 14 - 11, pp. 3818 - 3818. MDPI, 2025.

**Type of production:** Scientific paper  
**Position of signature:** 5

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2.9  
**Position of publication:** 65

**Corresponding author:** No  
**Category:** MEDICINE, GENERAL & INTERNAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 332

**Relevant publication:** Yes

- 5** Luis Perales-López; Ismael Sanz-Esteban; Camen Jiménez-Antona; J Ignacio Serrano; Ana San-Martín-Gómez; Xisca Vives-Gelabert; Roberto Cano-de-la-Cuerda. Automatic gait evoking in healthy adults through Vojta's peripheral somatosensory stimulation: a double-blind randomized controlled trial. *Journal of NeuroEngineering and Rehabilitation*. 21 - 1, pp. 174 - 174. BioMed Central London, 2024.

**Type of production:** Scientific paper  
**Position of signature:** 4

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 7  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 5.2  
**Position of publication:** 47

**Corresponding author:** No  
**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 314

**Relevant publication:** Yes

- 6** Juan Pablo Romero; Marcos Moreno-Verdú; Aida Arroyo-Ferrer; J Ignacio Serrano; Jaime Herreros-Rodríguez; Juan García-Caldentey; Eduardo Rocon de Lima; María Dolores Del Castillo. Clinical and neurophysiological effects of bilateral repetitive transcranial magnetic stimulation and EEG-guided neurofeedback in Parkinson's disease: a randomized, four-arm controlled trial. *Journal of Neuroengineering and Rehabilitation*. 21 - 1, pp. 135 - 135. BioMed Central London, 2024.

**Type of production:** Scientific paper

**Format:** Journal



**Position of signature:** 4

**Total no. authors:** 8

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 5.2

**Position of publication:** 47

**Relevant publication:** Yes

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - NEUROSCIENCES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 314

- 7** J Ignacio Serrano; Juan P Romero; Aida Arroyo-Ferrer; M Dolores del Castillo. Estimation of motor severity scales in Parkinson's disease by linear models of bimanual non-alternating index finger tapping features. Expert Systems with Applications. 246, pp. 123077 - 123077. Pergamon, 2024.

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 4

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 7.5

**Position of publication:** 36

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 366

- 8** María Galán-Olleros; Jaime Sánchez Del Saz; Carlos Miranda-Gorozarri; Jose Ignacio Serrano; Rosa M Egea-Gámez; Daniel Garríguez-Pérez; Javier Alonso-Hernández; Ignacio Martínez-Caballero. Physeal migration during knee-guided growth with tension band plates: influence of implant position. Journal of Pediatric Orthopaedics. 44 - 2, pp. e174 - e183. LWW, 2024.

**Type of production:** Scientific paper

**Position of signature:** 4

**Total no. authors:** 8

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1.5

**Position of publication:** 100

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - PEDIATRICS

**Journal in the top 25%:** No

**No. of journals in the cat.:** 191

- 9** María Galán-Olleros; Ángel Palazón-Quevedo; Rosa M. Egea-Gámez; Ana Ramírez-Barragán; J. Ignacio Serrano; Ignacio Martínez-Caballero. Is There a Relationship Between the Functional Level of Juvenile and Adolescent Patients With Down Syndrome and Hip Dysplasia?. Journal of Pediatric Orthopaedics. 43 - 5, pp. e311 - e318. Wolters Kluwer, 2023.

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 6

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1,7

**Position of publication:** 56

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** ORTHOPEDICS

**Journal in the top 25%:** No

**No. of journals in the cat.:** 86

- 10** María Galán-Olleros; Ana Ramírez-Barragán; Patricia Rodríguez-Zamorano; Rosa M. Egea-Gámez; J. Ignacio Serrano; Ignacio Martínez-Caballero. Long-term Impact of Planovalgus Foot on Activities of Daily Living in Patients With Down Syndrome. Journal of Pediatric Orthopaedics. 43 - 4, pp. 259 - 267. Wolters Kluwer, 2023.



**Type of production:** Scientific paper  
**Position of signature:** 5

**Total no. authors:** 6

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1,7

**Position of publication:** 56

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** ORTHOPEDICS

**Journal in the top 25%:** No

**No. of journals in the cat.:** 86

- 11** Ignacio Martínez-Caballero; María Galán-Olleros; Rosa M. Egea-Gámez; J. Ignacio Serrano; Ana Ramírez-Barragán; Álvaro Pérez-Somarriba; Carlos Martín-Gómez; Sergio Lerma-Lara. Percutaneous Lengthening with an Intramuscular Needle of the Gastrosoleus Complex Improves Critical Ankle Kinematic Values in Resistant Pediatric Equinus: A Pilot Study. *Surgeries*. 4 - 2, pp. 253 - 263. MDPI, 2023.

**Type of production:** Scientific paper

**Position of signature:** 4

**Total no. authors:** 8

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

- 12** Rosa M. Egea-Gámez; María Galán-Olleros; Ignacio Martínez-Caballero; Ana Ramírez-Barragán; J. Ignacio Serrano; Ángel Palazón-Quevedo; Rafael González-Díaz. Scoliosis in Adolescent Patients With Down Syndrome: Correlation Between Curve Magnitude and Functional Level. *Clinical Spine Surgery*. 37448188, pp. 10 - 1097. LWW, 2023.

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 7

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1,9

**Position of publication:** 50

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** ORTHOPEDICS

**Journal in the top 25%:** No

**No. of journals in the cat.:** 86

- 13** Daniel Muñoz-García; J. Ignacio Serrano; Raúl Ferrer-Peña; Victor D'eudeville; Marta Brero; Maxime Boisson; M. Dolores del Castillo. Visually-induced motor imagery effects on motor adaptation to reverse steering cycling. A randomized controlled trial. *Research Quarterly for Exercise and Sport*. In press, Taylor & Francis, 2023.

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 7

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2,2

**Position of publication:** 52

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Category:** SPORT SCIENCES

**No. of journals in the cat.:** 87

- 14** J. Ignacio Serrano; Ángel Iglesias; Steven P. Woods; M. Dolores del Castillo. A computational cognitive model of the Iowa Gambling Task for finely characterizing decision making in methamphetamine users. *Expert Systems with Applications*. 205, pp. 117795 - 117795. 2022. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0957417422010612>>. ISSN 0957-4174

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 4

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Impact source:** WOS (JCR)**Impact index in year of publication:** 8,5**Position of publication:** 23**Relevant publication:** Yes**Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 275

- 15** A. Arroyo-Ferrer; D. de Noreña; J.I. Serrano; M. Ríos-Lago; J.P. Romero. Cognitive rehabilitation in a case of traumatic brain injury using EEG-based neurofeedback in comparison to conventional methods. *Journal of Integrative Neuroscience*. 20 - 2, pp. 449 - 457. IMR Press Limited, 2021. ISSN 02196352

**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 5**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

- 16** Sanz-Esteban I; Cano-de-la-Cuerda R; San-Martín-Gómez A; Jiménez-Antona C; Monge-Pereira E; Estrada-Barranco C; Serrano JI. Cortical activity during sensorial tactile stimulation in healthy adults through Vojta therapy. A randomized pilot controlled trial. *Journal of neuroengineering and rehabilitation*. 18 - 13, 2021.

**DOI:** 10.1186/s12984-021-00824-4**PMID:** 33478517**Type of production:** Scientific paper**Position of signature:** 7**Total no. authors:** 7**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.519**Position of publication:** 5**Relevant publication:** Yes**Category:** Rehabilitation**Journal in the top 25%:** Yes**No. of journals in the cat.:** 68

- 17** I. Sanz-Esteban; R. Cano-De-La-Cuerda; A. San-Martin-Gomez; C. Jimenez-Antona; E. Monge-Pereira; C. Estrada-Barranco; P.C. Garcia-Sanchez; J.I. Serrano. Innate Muscle Patterns Reproduction during Afferent Somatosensory Input with Vojta Therapy in Healthy Adults. A Randomized Controlled Trial. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*. 29, pp. 2232 - 2241. Institute of Electrical and Electronics Engineers Inc., 2021. ISSN 15344320

**Type of production:** Scientific paper**Position of signature:** 8**Total no. authors:** 8**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

- 18** R. López-Blanco; J. Benito-León; S. Llamas-Velasco; M.D. del Castillo; J.I. Serrano; E. Rocon; J.P. Romero; M.A. Velasco. Interaction with touchscreen smartphones in patients with essential tremor and healthy individuals [Interacción con pantalla táctil de smartphone en pacientes con temblor esencial y sujetos sanos]. *Neurología*. 36 - 9, pp. 657 - 665. Spanish Society of Neurology, 2021. ISSN 02134853

**Type of production:** Scientific paper**Position of signature:** 5**Total no. authors:** 8**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee



- 19** Gonzalez-Zamorano, Yeray; Fernandez-Carnero, Josue; Sanchez-Cuesta, Francisco Jose; Arroyo-Ferrer, Aida; Vourvopoulos, Athanasios; Figueiredo, Patricia; Serrano, Jose Ignacio; Romero, Juan Pablo. New Approaches Based on Non-Invasive Brain Stimulation and Mental Representation Techniques Targeting Pain in Parkinson's Disease Patients: Two Study Protocols for Two Randomized Controlled Trials. BRAIN SCIENCES. 11 - 65, 2021.  
**DOI:** 10.3390/brainsci11010065  
**PMID:** 33561080  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 8  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3.332  
**Position of publication:** 114  
**Relevant publication:** Yes  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 272
- 20** Carlos Alberto Stefano Filho; J. Ignacio Serrano Moreno; Romis Attux; Gabriela Castellano; Eduardo Rocon; M. Dolores del Castillo Sobrino. Reorganization of Resting-State EEG Functional Connectivity Patterns in Children with Cerebral Palsy Following a Motor Imagery Virtual-Reality Intervention. APPLIED SCIENCES-BASEL. 11 - 2372, pp. 2732. 2021.  
**DOI:** 10.3390/app11052372  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2.474  
**Position of publication:** 32  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 91
- 21** Maria Maitin, Ana; Perezzan, Ramiro; Herraez-Aguilar, Diego; Ignacio Serrano, Jose; Dolores Del Castillo, Maria; Arroyo, Aida; Andreo, Jorge; Pablo Romero, Juan. Time Series Analysis Applied to EEG Shows Increased Global Connectivity during Motor Activation Detected in PD Patients Compared to Controls. APPLIED SCIENCES-BASEL. 11 - 15, pp. 1 - 20. 2021.  
**DOI:** 10.3390/app11010015  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 8  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2.468  
**Position of publication:** 63  
**Relevant publication:** Yes  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - PHYSICS, APPLIED  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 155
- 22** J. Benito-León; M.D.D. Castillo; A. Estirado; R. Ghosh; S. Dubey; J.I. Serrano. Using unsupervised machine learning to identify age- And sex-independent severity subgroups among patients with COVID-19: Observational longitudinal study. Journal of Medical Internet Research. 23 - 5, JMIR Publications Inc., 2021. ISSN 14388871  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 6  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Relevant publication:** Yes

- 23** J. Ignacio Serrano; Daniel Muñoz-García; Raúl Ferrer-Peña; Víctor D'eudeville; Marta Brero; Maxime Boisson; M. Dolores del Castillo. PRIOR CORTICAL ACTIVITY DIFFERENCES DURING AN ACTION OBSERVATION PLUS MOTOR IMAGERY TASK RELATED TO MOTOR ADAPTATION PERFORMANCE OF A COORDINATED MULTI-LIMB COMPLEX TASK. *Cognitive Neurodynamics*. 14 - 6, pp. 769 - 779. Springer, 2020. ISSN 1871-4099

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 7

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3,925

**Position of publication:** 90

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Category:** Science Edition - NEUROSCIENCES

**Journal in the top 25%:** No

**No. of journals in the cat.:** 271

- 24** Julián Benito-León; Elan D. Louis; Virginia Mato-Abad; Álvaro Sánchez-Ferro; Juan P. Romero; Michele Matarazzo; J. Ignacio Serrano. A DATA MINING APPROACH FOR CLASSIFICATION OF ORTHOSTATIC AND ESSENTIAL TREMOR BASED ON MRI-DERIVED BRAIN VOLUME AND CORTICAL THICKNESS. *Annals of Clinical and Translational Neurology*. 6 - 12, pp. 2531 - 2543. Wiley, 2019.

**DOI:** <https://doi.org/10.1002/acn3.50947>

**Type of production:** Scientific paper

**Position of signature:** 7

**Total no. authors:** 7

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 4,656

**Position of publication:** 29

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - CLINICAL NEUROLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 199

- 25** J. Ignacio Serrano; Elan D. Louis; Ales Holobar; Juan P. Romero; Petra Povalej-Brzan; Félix Bermejo-Pareja; M. Dolores del Castillo; Ignacio J. Posada; Eduardo Rocon. ESSENTIAL TREMOR SEVERITY AND ANATOMICAL CHANGES IN BRAIN AREAS CONTROLLING MOVEMENT SEQUENCING. *Annals of Clinical and Translational Neurology*. 6 - 1, pp. 83 - 97. Wiley, 2019.

**DOI:** <https://doi.org/10.1002/acn3.681>

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 10

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 4,656

**Position of publication:** 29

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - CLINICAL NEUROLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 199

- 26** Julián Benito-León; J. Ignacio Serrano; Elan D. Louis; Ales Holobar; Juan P. Romero; Petra Povalej-Brzan; Félix Bermejo-Pareja; M. Dolores del Castillo; Ignacio J. Posada; Eduardo Rocon. TREMOR SEVERITY IN PARKINSON'S DISEASE AND CORTICAL CHANGES OF AREAS CONTROLLING MOVEMENT SEQUENCING: A PRELIMINARY STUDY. *Journal of Neuroscience Research*. 96, pp. 1341 - 1352. 2018.

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 10

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4,139  
**Position of publication:** 74  
**Relevant publication:** Yes

**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 267

- 27** J. Ignacio Serrano; Juan P. Romero; M. Dolores del Castillo; Eduardo Rocon; Elan Louis; Julián Benito-León. A DATA MINING APPROACH USING CORTICAL THICKNESS FOR DIAGNOSIS AND CHARACTERIZATION OF ESSENTIAL TREMOR. Scientific Reports. 7 - 1, pp. 2190. Nature Publishing group, 2017.

**Type of production:** Scientific paper  
**Position of signature:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Total no. authors:** 6

**Impact source:** WOS (JCR)

**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES

**Impact index in year of publication:** 4,122

**Journal in the top 25%:** Yes

**Position of publication:** 12

**No. of journals in the cat.:** 64

**Relevant publication:** Yes

- 28** M.D. del Castillo; M. Schorlemmer; J.I. Serrano; L. Menéndez de la Prida; V. Gallego; D. Rios; T. Galla; C. Mirasso; M. San Miguel; R. Toral; T. Ausín Díez; A. Serrano de Haro; Ma. Toboso Martín; A. Wagner; J. Sabater-Mir; S. Canals. Computational Cognitive Models. CSIC Scientific Challenges: Towards 2030. Artificial Intelligence, Robotics & Data Science.11, pp. 101 - 119. Editorial CSIC, 2021. ISBN 978-84-00-10758-1

**Type of production:** Book chapter  
**Position of signature:** 3

**Format:** Book

**Degree of contribution:** Author or co-author of chapter in book

**Total no. authors:** 16

**Relevant publication:** Yes

- 29** F.J. Sánchez-Cuesta; A. Arroyo-Ferrer; Y. González-Zamorano; A. Vourvopoulos; S.B.I. Badia; P. Figuereido; J.I. Serrano; J.P. Romero. Clinical effects of immersive multimodal BCI-VR training after bilateral neuromodulation with rTMS on upper limb motor recovery after stroke. a study protocol for a randomized controlled trial. Medicina (Lithuania). 57 - 8, MDPI AG, 2021. ISSN 1010660X

**Type of production:** Scientific paper  
**Position of signature:** 7

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 8

- 30** Hernandez-Gallego, Jesus; Llamas-Velasco, Sara; Bermejo-Pareja, Felix; Vega, Saturio; Tapias-Merino, Ester; Rodriguez-Sanchez, Emiliano; Boycheva, Elina; Serrano, J. Ignacio; Gil-Garcia, Juan-Francisco; Trincado, Rocio; Vizcaino Sanchez-Rodrigo, Jose-Maria; Cacho, Jesus; Contador, Israel; Garcia-Ptacek, Sara; Sierra-Hidalgo, Fernando; Cubo, Esther; Carro, Eva; Villarejo-Galende, Alberto; Garcia Garcia-Patino, Rosalia; Benito-Leon, Julian. NEUROLOGICAL DISORDERS IN CENTRAL SPAIN, SECOND SURVEY: FEASIBILITY PILOT OBSERVATIONAL STUDY. JMIR RESEARCH PROTOCOLS. 8 - 1, pp. e10941. 2019. ISSN 1929-0748

**DOI:** 10.2196/10941

**PMID:** 30632964

**Type of production:** Scientific paper  
**Position of signature:** 8

**Format:** Journal

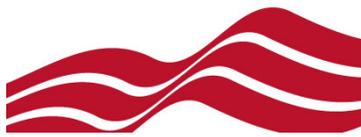
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 20

- 31** Roberto López-Blanco; Miguel A. Velasco; Antonio Méndez-Guerrero; Juan Pablo Romero; M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon; Julián Benito-León. SMARTWATCH FOR THE ANALYSIS OF REST TREMOR IN PATIENTS WITH PARKINSON'S DISEASE. *Journal of the Neurological Sciences*. 401, pp. 37 - 42. 2019.
- Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 8  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2,651  
**Position of publication:** 99
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 199
- 32** J. Ignacio Serrano; M. Dolores del Castillo; Verónica Cortés; Nuno Mendes; Aida Arroyo; Jorge Andreo; Eduardo Rocon; María del Valle; Jaime Herreros; Juan Pablo Romero. EEG MICROSTATE CHANGE IN RESPONSE TO INCREASE IN DOPAMINERGIC STIMULATION IN TYPICAL PARKINSON'S DISEASE PATIENTS. *Frontiers in Neuroscience*. 12 - 714, pp. 1 - 9. 2018.
- Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 10  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3,648  
**Position of publication:** 92
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 267
- 33** Verónica Cortés; J. Ignacio Serrano; Nuno Mendes; M. Dolores del Castillo; Aida Arroyo; Jorge Andreo; María del Valle; J. Herreros-Rodríguez; Juan Pablo Romero. EEG MICROSTATES CHANGES IN RESPONSE TO INCREASE IN DOPAMINEERGIC STIMULATION IN TREATED TYPICAL PARKINSON'S DISEASE PATIENTS WITHOUT CLINICAL FLUCTUATIONS. *Movement Disorders*. 33 - Suppl. 2, pp. S653. 2018.
- Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 9  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 8,222  
**Position of publication:** 12
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 199
- 34** Roberto López-Blanco; Miguel A. Velasco; Antonio Méndez-Guerrero; Juan P. Romero; M. Dolores del Castillo; J. Ignacio Serrano; Julián Benito-León; Félix Bermejo-Pareja; Eduardo Rocon. ESSENTIAL TREMOR QUANTIFICATION BASED ON THE COMBINED USE OF A SMARTPHONE AND SMARTWATCH: THE NETMD STUDY. *Journal of Neuroscience Methods*. 303, pp. 95 - 102. Elsevier, 2018.
- Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 9  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2,785  
**Position of publication:** 31
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - BIOCHEMICAL RESEARCH METHODS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 79

- 35** M. Dolores del Castillo; J. Ignacio Serrano; Yolanda Escudero; Sergio Lerma; Ignacio Martínez-Caballero; Eduardo Rocon. EVALUACIÓN NEUROFISIOLÓGICA DEL ENTRENAMIENTO DE LA IMAGINACIÓN MOTORA CON REALIDAD VIRTUAL EN PACIENTES PEDIÁTRICOS CON PARÁLISIS CEREBRAL. *Revista Iberoamericana de Automática e Informática Industrial*. 15, pp. 174 - 179. Elsevier, 2018.  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 1,313  
**Position of publication:** 46  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 62
- 36** Juan Pablo Romero; J. Ignacio Serrano; M. Dolores del Castillo; Aida Arroyo; Verónica Cortés; Jorge Andreo; José Periañez; Marcos Ríos. FINGER TAPPING PROFILE IN "ON STATE" PD PATIENTS. *Movement Disorders*. 33 - Suppl. 2, pp. S459. 2018.  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 8  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 8,222  
**Position of publication:** 12  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 199
- 37** Miguel Velasco; Roberto López-Blanco; J. Ignacio Serrano; M. Dolores del Castillo; Juan Pablo Romero; Julián Benito-León; Eduardo Rocon. GAIT AND STANCE EVENTS MEASURED WITH SMARTWATCHES IN PATIENTS WITH PD AND ET. *Movement Disorders*. 33 - Suppl. 2, pp. S523. 2018.  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 7  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 8,222  
**Position of publication:** 12  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 199
- 38** Roberto López-Blanco; Julián Benito-León; Sergio Llamas-Blasco; M. Dolores del Castillo; José Ignacio Serrano Moreno; Eduardo Rocon; Juan Pablo Romero; Miguel Ángel Velasco. INTERACTION WITH TOUCHSCREEN SMARTPHONES IN PATIENTS WITH ESSENTIAL TREMOR AND HEALTHY INDIVIDUALS. *Neurología*. S0213-4853 - (18), pp. 30178-6. Springer, 2018.  
**DOI:** <https://doi.org/10.1016/j.nrleng.2018.05.009>  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 8  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2,038  
**Position of publication:** 137  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 199

- 39** Jesús Oliva; J. Ignacio Serrano; M. Dolores del Castillo; Ángel Iglesias. **CROSSLINGUISTIC COGNITIVE MODELING OF VERBAL MORPHOLOGY ACQUISITION.** *Cognitive Computation*. 9, pp. 237 - 258. Springer, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 4  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3,479  
**Position of publication:** 24  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 132
- 40** Cristina Bayón; Óscar Ramírez; J. Ignacio Serrano; M. Dolores del Castillo; Álvaro Pérez-Somarriba; J. Manuel Belda-Lois; Ignacio Martínez-Caballero; Sergio Lerma; Carlos A. Cifuentes; Anselmo Frizera; Eduardo Rocon. **DEVELOPMENT AND EVALUATION OF A NOVEL ROBOTIC PLATFORM FOR GAIT REHABILITATION IN PATIENTS WITH CEREBRAL PALSY: CPWALKER.** *Robotics and Autonomous Systems*. 91, pp. 101 - 114. Elsevier, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 11  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2,638  
**Position of publication:** 36  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 132
- 41** Esther Monge Pereira; Francisco Molina; Isabela Alguacil; Jaime Ibáñez Pereda; José Ignacio Serrano Moreno; Isabela M. Alguacil-Diego; Juan C. Miangolarra-Page. **ELECTROENCEPHALOGRAPHY AS A POST-STROKE ASSESSMENT METHOD: AN UPDATED REVIEW.** *Neurología*. 32 - 1, pp. 40 - 49. Springer, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 7  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 1,938  
**Position of publication:** 136  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 197
- 42** Esther Monge-Pereira; Irene Casatorres-Pérez-Higueras; Pilar Fernández-González; Jaime Ibáñez-Pereda; José Ignacio Serrano; Francisco Molina-Rueda. **ENTRENAMIENTO DE LAS SEÑALES CORTICALES A TRAVÉS DE UN SISTEMA BMI-EEG, EVOLUCIÓN E INTERVENCIÓN. A PROPÓSITO DE UN CASO.** *Revista de Neurología*. 64 - 8, pp. 362 - 366. Viguera, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 0,601  
**Position of publication:** 191  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 197



- 43** J. Ignacio Serrano; Stefan Lambrecht; M. Dolores del Castillo; Juan P. Romero; Julián Benito-León; Eduardo Rocon. IDENTIFICATION OF ACTIVITIES OF DAILY LIVING IN TREMOROUS PATIENTS USING INERTIAL SENSORS. Expert systems with Applications. 83, pp. 40 - 48. Elsevier, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3,768  
**Position of publication:** 8  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - OPERATIONS RESEARCH & MANAGEMENT SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 83
- 44** Jaime Ibáñez; Esther Monge; Francisco Molina; J. Ignacio Serrano; M. Dolores del Castillo; Alicia Cuesta; María Carratalá; Roberto Cano; Isabela Alguacil; Juan Carlos Miangolarra; José L. Pons. LOW LATENCY ESTIMATOIN OF MOTOR INTENTIONS TO ASSIST REACHING MOVEMENTS ALONG MULTIPLE SESSIONS IN CHRONIC STROKE PATIENTS: A FEASIBILITY STUDY. Frontiers in Neuroscience. 11, pp. 126. Frontiers Media, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 11  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3,877  
**Position of publication:** 77  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 261
- 45** J. Ignacio Serrano; Ángel Iglesias; M. Dolores del Castillo. PLAUSIBILITY VALIDATION OF A DECISION MAKING MODEL USING SUBJECTS' EXPLANATIONS OF DECISIONS. Biologically Inspired Cognitive Architectures. 20, pp. 1 - 9. Elsevier, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 4  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 0,787  
**Position of publication:** 112  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 132
- 46** Esther Monge-Pereira; Jaime Ibáñez; Isabel M. Alguacil-Diego; J. Ignacio Serrano; María P. Spottorno-Rubio; Francisco Molina-Rueda. USE OF ELECTROENCEPHALOGRAPHY BRAIN-COMPUTER INTERFACES SYSTEMS AS A REHABILITATIVE APPROACH FOR UPPER LIMB FUNCTION AFTER A STROKE: A SYSTEMATIC REVIEW. PM&R. S1934-1482 - (17)30581-6, Elsevier, 2017.  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 1,850  
**Position of publication:** 24  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - REHABILITATION  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 65



- 47** Sergio Lerma; Ignacio Martínez-Caballero; Cristina Bayón; J. Ignacio Serrano; Rafael Raya; Juan M. Belda-Lois; Teresa Martín; Beatriz Moral; Álvaro Ramírez; Estela Parra; Marta Loma-Ossorio; Eduardo Rocon. CAN ROBOTIC-BASED TOP-DOWN REHABILITATION THERAPIES IMPROVE MOTOR CONTROL IN CHILDREN WITH CEREBRAL PALSY? A PERSPECTIVE ON THE CPWALKER PROJECT. Biomedical Research and Clinical Practice. 1 - 11, pp. 22 - 26. OAText, 2016.  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 12  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No
- 48** Cristina Bayón; Sergio Lerma; Óscar Ramírez; José Ignacio Serrano; M. Dolores del Castillo; Rafael Raya; Juan M. Belda-Lois; Ignacio Martínez-Caballero; Eduardo Rocon. LOCOMOTOR TRAINING THROUGH A NOVEL ROBOTIC PLATFORM FOR GAIT REHABILITATION IN PEDIATRIC POPULATION. Journal of NeuroEngineering and Rehabilitation. 13 - 1, pp. 98. BioMed Central, 2016.  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 9  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3,516  
**Position of publication:** 3  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Rehabilitation  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 65
- 49** Cristina Bayón; Rafael Raya; Sergio Lerma; Óscar Ramírez; J. Ignacio Serrano; Eduardo Rocon. ROBOTIC THERAPIES FOR CHILDREN WITH CEREBRAL PALSY: A SYSTEMATIC REVIEW. Translational Biomedicine. 7 - 1, pp. 1 - 10. Insight Medical Publishing, 2016.  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 6  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
- 50** J. Ignacio Serrano; M. Dolores del Castillo; Rafael Raya; Cristina Bayón; Ignacio Martínez-Caballero; Sergio Lerma; Eduardo Rocon. BCI BASADO EN LA FACILITACIÓN ASOCIATIVA DE LA ACTIVIDAD CORTICAL PARA EL INICIO DE LA MARCHA EN PARÁLISIS CEREBRAL. Cognitive Area Networks. 2 - June, pp. 23 - 26. Asociación Nicolo, 2015.  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 7  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes
- 51** Sergio Lerma; M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon; Rafael Raya; Ignacio Martínez-Caballero. EEG CONTROL OF GAIT IN CHILDREN WITH CEREBRAL PALSY. PRELIMINARY DATA FOR THE CONSTRUCTION OF A BRAIN COMPUTER INTERFACE. Gait & Posture. 42, pp. S42. Elsevier, 2015.  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 7  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2.286  
**Position of publication:** 20  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - SPORT SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 82



- 52** J. Ignacio Serrano Moreno; M. Dolores del Castillo Sobrino; Jesús Oliva Gonzalo; Rafael Raya. HUMAN-INSPIRED SEMANTIC SIMILARITY BETWEEN SENTENCES. Biologically Inspired Cognitive Architectures. 12, pp. 121 - 133. ELSEVIER, 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1  
**Total no. authors:** 4 **Corresponding author:** Yes  
**Impact source:** WOS (JCR) **Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Impact index in year of publication:** 0,838 **Journal in the top 25%:** No  
**Position of publication:** 99 **No. of journals in the cat.:** 130
- 53** J. Ignacio Serrano; M. Dolores del Castillo; Rafael Raya; Cristina Bayón; Eduardo Rocon; Ignacio Martínez; Sergio Lerma. INTEGRACIÓN DE CARACTERÍSTICAS DE LA SEÑAL ELECTROENCEFALOGRÁFICA PARA LA DETECCIÓN DEL INICIO DE MOVIMIENTOS VOLUNTARIOS. Cognitive Area Networks. Actas 7º Simposio CEA de Bioingeniería 2015, Interfaces Cerebro-Computadora (BCI) y Tecnologías Asistenciales. 2, pp. 23 - 26. Málaga(Spain): 2015. ISSN 2341-4243  
**Type of production:** Scientific paper **Format:** Book  
**Position of signature:** 1 **Degree of contribution:** Author or co-author of chapter in book  
**Total no. authors:** 7 **Corresponding author:** Yes
- 54** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Javier Mínguez; José Luis Pons. PREDICTIVE CLASSIFICATION OF SELF-PACED UPPER-LIMB ANALYTICAL MOVEMENTS WITH EEG. Medical & Biological Engineering & Computing. 53 - 11, pp. 1201 - 1210. Springer, 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 5  
**Impact source:** WOS (JCR) **Category:** Science Edition - MEDICAL INFORMATICS  
**Impact index in year of publication:** 1.500 **Journal in the top 25%:** No  
**Position of publication:** 11 **No. of journals in the cat.:** 24
- 55** Jesús Oliva Gonzalo; José Ignacio Serrano Moreno; María Dolores del Castillo Sobrino; Ángel Iglesias Sánchez. A METHODOLOGY FOR THE CHARACTERIZATION AND DIAGNOSIS OF COGNITIVE IMPAIRMENTS. APPLICATION TO SPECIFIC LANGUAGE IMPAIRMENT. Artificial Intelligence in Medicine. 61 - 2, pp. 89 - 96. Elsevier, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Impact source:** WOS (JCR) **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Impact index in year of publication:** 1.356 **Journal in the top 25%:** No  
**Position of publication:** 57 **No. of journals in the cat.:** 121
- 56** José Ignacio Serrano Moreno; María Dolores del Castillo Sobrino; Manuel Carretero Chica. COGNITIVE? SCIENCE?. Foundations of Science. 19 - 2, pp. 115 - 131. Springer, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 3  
**Impact source:** WOS (JCR) **Category:** Science Edition - HISTORY & PHILOSOPHY OF SCIENCE  
**Impact index in year of publication:** 0.810 **Journal in the top 25%:** Yes

**Position of publication:** 10**No. of journals in the cat.:** 56

- 57** Jaime Ibáñez Pereda; José Ignacio Serrano Moreno; María Dolores del Castillo Sobrino; Esther Monge Pereira; Francisco Molina; Isabela Alguacil; José Luis Pons. DETECTION OF THE ONSET OF UPPER-LIMB MOVEMENTS BASED ON THE COMBINED ANALYSIS OF CHANGES IN THE SENSORIMOTOR RHYTHMS AND SLOW CORTICAL POTENTIALS. Journal of Neural Engineering. 11 - 5, IOS Press, 2014.

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 7**Impact source:** WOS (JCR)**Category:** Science Edition - ENGINEERING, BIOMEDICAL**Impact index in year of publication:** 3.415**Journal in the top 25%:** Yes**Position of publication:** 10**No. of journals in the cat.:** 76

- 58** José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. EFFECTS OF TEXT ESSAY QUALITY ON READERS' WORKING MEMORY BY A COMPUTATIONAL MODEL. Biologically Inspired Cognitive Architectures. 7, pp. 39 - 52. Elsevier, 2014.

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Impact source:** WOS (JCR)**Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Impact index in year of publication:** 0,838**Journal in the top 25%:** No**Position of publication:** 99**No. of journals in the cat.:** 130

- 59** Jesús Oliva; José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. A SMS NORMALIZATION SYSTEM INTEGRATING MULTIPLE GRAMMATICAL RESOURCES. Natural Language Engineering. 19 - 1, pp. 121 - 141. Cambridge University Press, 2013.

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 4**Impact source:** WOS (JCR)**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Impact index in year of publication:** 0.463**Journal in the top 25%:** No**Position of publication:** 106**No. of journals in the cat.:** 121

- 60** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Juan Álvaro Gallego; Eduardo Rocon. ONLINE DETECTOR OF MOVEMENT INTENTION BASED ON EEG - APPLICATION IN TREMOR PATIENTS. Biomedical Signal Processing and Control. 8, pp. 822 - 829. Elsevier, 2013.

**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 5**Impact source:** WOS (JCR)**Category:** Science Edition - ENGINEERING, BIOMEDICAL**Impact index in year of publication:** 1.532**Journal in the top 25%:** No**Position of publication:** 40**No. of journals in the cat.:** 76



- 61** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. A COMPUTATIONAL KNOWLEDGE-BASED MODEL FOR EMULATING HUMAN PERFORMANCE IN THE IOWA GAMBLING TASK. *Neural Networks*. 33, pp. 168 - 180. Elsevier, 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Impact source:** WOS (JCR) **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Impact index in year of publication:** 1.927 **Journal in the top 25%:** Yes  
**Position of publication:** 28 **No. of journals in the cat.:** 115
- 62** Juan Álvaro Gallego; Jaime Ibáñez; J. Dideriksen; José Ignacio Serrano; María Dolores del Castillo; Dario Farina; Eduardo Rocon. A MULTIMODAL HUMAN-ROBOT INTERFACE TO DRIVE A NEUPROSTHESIS FOR TREMOR MANAGEMENT. *IEEE Transactions on Systems, Man and Cybernetics—Part C: Applications and Reviews*. 42 - 6, pp. 1159 - 1168. IEEE-INST Electrical Electronics Engineers Inc., 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 4  
**Impact source:** WOS (JCR) **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Impact index in year of publication:** 2.548 **Journal in the top 25%:** Yes  
**Position of publication:** 17 **No. of journals in the cat.:** 115
- 63** Luis J. Barrios; María Dolores del Castillo; José Ignacio Serrano; José Luis Pons. A REVIEW OF FMRI AS A TOOL FOR ENHANCING EEG-BASED BRAIN-MACHINE INTERFACES. *Applied Bionics and Biomechanics*. 9 - 2, pp. 125 - 133. IOS Press, 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 4  
**Impact source:** WOS (JCR) **Category:** Science Edition - ENGINEERING, BIOMEDICAL  
**Impact index in year of publication:** 0.483 **Journal in the top 25%:** No  
**Position of publication:** 69 **No. of journals in the cat.:** 79
- 64** José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias; Jesús Oliva. THE ORIGIN OF EVOLUTIONARY COMPUTATION SPECIES: INFLUENCES OF DARWIN'S THEORIES ON COMPUTER SCIENCE. *Artificial Intelligence Review*. 38 - 1, pp. 41 - 54. Springer Netherlands, 2012. ISSN 0269-2821  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1  
**Impact source:** WOS (JCR) **Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Impact index in year of publication:** 1.565 **Journal in the top 25%:** No  
**Position of publication:** 41 **No. of journals in the cat.:** 115
- 65** María Dolores del Castillo; José Ignacio Serrano; Jaime Ibáñez; Luis J. Barrios. METODOLOGÍA PARA LA CREACIÓN DE UNA INTERFAZ CEREBRO-COMPUTADOR APLICADA A LA IDENTIFICACIÓN DE LA INTENCIÓN DE MOVIMIENTO. *Revista Iberoamericana de Automática e Informática Industrial*. 8 - 2, pp. 93 - 102. Comité Español de Automática CEA, 2011.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Impact source:** WOS (JCR)



**Impact index in year of publication:** 0.231  
**Position of publication:** 54

**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 58

- 66** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. SISTEMA DE AYUDA A LA DECISIÓN APLICADO A SITUACIONES DE EMERGENCIA EN TIEMPO REAL. Revista Iberoamericana de Automática e Informática Industrial. 8 - 1, pp. 80 - 88. Comité Español de Automática CEA, 2011.

**Type of production:** Scientific paper  
**Position of signature:** 3  
**Impact source:** WOS (JCR)

**Format:** Journal

**Category:** Science Edition - AUTOMATION & CONTROL SYSTEMS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 58

**Impact index in year of publication:** 0.231  
**Position of publication:** 54

- 67** Jesús Oliva; José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. SYMSS: A SYNTAX-BASED MEASURE FOR SHORT TEXT SEMANTIC SIMILARITY. Data and Knowledge Engineering. 70 - 4, pp. 390 - 405. Elsevier, 2011.

**Type of production:** Scientific paper  
**Position of signature:** 2  
**Impact source:** WOS (JCR)

**Format:** Journal

**Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 135

**Impact index in year of publication:** 1.422  
**Position of publication:** 41

- 68** José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias; Jesús Oliva. ASSESING ASPECTS OF READING BY A CONNECTIONIST MODEL. Neurocomputing. 72 - 16-18, pp. 3659 - 3668. Elsevier, 2009.

**Type of production:** Scientific paper  
**Position of signature:** 1  
**Impact source:** WOS (JCR)

**Format:** Journal

**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 103

**Impact index in year of publication:** 1.440  
**Position of publication:** 47

- 69** José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. DEALING WITH WRITTEN LANGUAGE SEMANTICS BY A CONNECTIONIST MODEL OF COGNITIVE READING. Neurocomputing. 72 - 4-6, pp. 713 - 725. Elsevier, 2009.

**Type of production:** Scientific paper  
**Position of signature:** 1  
**Impact source:** WOS (JCR)

**Format:** Journal

**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 103

**Impact index in year of publication:** 1.440  
**Position of publication:** 47

- 70** Lourdes Araujo; José Ignacio Serrano. HIGHLY ACCURATE ERROR-DRIVEN METHOD FOR NOUN PHRASE DETECTION. Pattern Recognition Letters. 29 - 4, pp. 547 - 557. Elsevier, 2008.

**Type of production:** Scientific paper  
**Position of signature:** 2  
**Impact source:** WOS (JCR)

**Format:** Journal

**Impact index in year of publication:** 1.559**Position of publication:** 40**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Journal in the top 25%:** No**No. of journals in the cat.:** 94**71** José Ignacio Serrano; María Dolores del Castillo. EVOLUTIONARY LEARNING OF DOCUMENT CATEGORIES. Information Retrieval. 10, pp. 69 - 83. Springer, 2007.**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** WOS (JCR)**Impact index in year of publication:** 0.770**Position of publication:** 51**Format:** Journal**Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS**Journal in the top 25%:** No**No. of journals in the cat.:** 92**72** José Ignacio Serrano; Marie Tomécková; Jana Zvárová. MACHINE LEARNING METHODS FOR KNOWLEDGE DISCOVERY IN MEDICAL DATA ON ATHEROSCLEROSIS. European Journal of Biomedical Informatics. 2006, EuroMISE s.r.o., 2006.**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**73** María Dolores del Castillo; José Ignacio Serrano. A MULTISTRATEGY APPROACH FOR DIGITAL TEXT CATEGORIZATION. Mathware & Soft Computing Journal.12 - 1, pp. 15 - 32. Universidad Politécnica de Cataluña, 2005.**Type of production:** Scientific paper**Position of signature:** 2**Format:** Journal**74** José Ignacio Serrano; Lourdes Araujo. STATISTICAL RECOGNITION OF NOUN PHRASES IN UNRESTRICTED TEXT. Lecture Notes in Computer Science. 3646, pp. 397 - 408. Springer-Verlag, 2005.**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** WOS (JCR)**Impact index in year of publication:** 0.402**Position of publication:** 62**Format:** Journal**Category:** Science Edition - COMPUTER SCIENCE, THEORY & METHODS**Journal in the top 25%:** No**No. of journals in the cat.:** 71**75** María Dolores del Castillo; José Ignacio Serrano. A MULTISTRATEGY APPROACH FOR DIGITAL TEXT CATEGORIZATION FROM IMBALANCED DOCUMENTS. ACM SIGKDD Explorations. 6 - 1, pp. 70 - 79. ACM Press, 2004.**Type of production:** Scientific paper**Position of signature:** 2**Format:** Journal**76** Esther Monge Pereira; José Ignacio Serrano Moreno; Jaime<sup>o</sup> Ibáñez Pereda; Francisco Molina Rueda. INTERFAZ CEREBRO-MÁQUINA. Nuevas Tecnologías en Neurorrehabilitación. Aplicaciones Diagnósticas y Terapéuticas. pp. 109 - 115. Panamericana, 2018. ISBN 978-84-9110-239-7**Type of production:** Book chapter**Position of signature:** 2**Total no. authors:** 4**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** No



- 77** José Ignacio Serrano Moreno; María Dolores del Castillo Sobrino; Cristina Bayón Calderón; Óscar Ramírez; Sergio Lerma-Lara; Ignacio Martínez-Caballero; Eduardo Rocon de Lima. BCI-BASED FACILITATION OF CORTICAL ACTIVITY ASSOCIATED TO GAIT ONSET AFTER SINGLE EVENT MULTI-LEVEL SURGERY IN CEREBRAL PALSY. Brain-Computer Interface research. A State-of-the-Art Summary 5. pp. 99 - 110. Springer, 2017. ISSN 2191-8112, ISBN 978-3-319-57131-7  
**Type of production:** Book chapter  
**Position of signature:** 1  
**Total no. authors:** 7  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book  
**Corresponding author:** Yes
- 78** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Esther Monge; Francisco Molina; Francisco Rivas; José Luis Pons. HETEROGENEOUS BCI-TRIGGERED FUNCTIONAL ELECTRICAL STIMULATION INTERVENTION FOR THE UPPER-LIMB REHABILITATION OF STROKE PATIENTS. Brain-Computer Interface research. A State-of-the-Art Summary 4. pp. 67 - 77. Springer, 2015.  
**Type of production:** Book chapter  
**Position of signature:** 2  
**Total no. authors:** 7  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book
- 79** José Ignacio Serrano Moreno; Jesús Oliva Gonzalo; María Dolores del Castillo Sobrino; Ángel Iglesias Sánchez. COMPUTATIONAL APPROACHES TO THE PSYCHOLOGY OF LANGUAGE. Psychology of Language. (United States of America): Nova Science Publishers, 2012. ISBN 978-1-61942-819-5  
**Type of production:** Book chapter  
**Position of signature:** 1  
**Total no. authors:** 4  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book
- 80** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. CONNECTIONIST MODELS OF DECISION MAKING. Decision Support Systems. IN-TECH Publisher, 2009.  
**Type of production:** Book chapter  
**Position of signature:** 3  
**Format:** Book
- 81** María Dolores del Castillo; Ángel Iglesias; José Ignacio Serrano. DATA MINING FOR OBTAINING SECURE E-MAIL COMMUNICATIONS. Encyclopedia of Data Warehousing and Mining 2nd edition. I, pp. 445 - 449. IGI Global, 2008.  
**Type of production:** Book chapter  
**Position of signature:** 3  
**Format:** Book
- 82** José Ignacio Serrano; María Dolores del Castillo. DOCUMENT INDEXING TECHNIQUES FOR TEXT MINING. Encyclopedia of Data Warehousing and Mining 2nd edition. II, pp. 716 - 721. IGI Global, 2008.  
**Type of production:** Book chapter  
**Position of signature:** 1  
**Format:** Book
- 83** José Ignacio Serrano. FILTRADO DE IMÁGENES PARA ADULTOS EN INTERNET. Optenet S.A., 2002.  
**Type of production:** Scientific-technical report  
**Position of signature:** 1  
**Format:** Scientific and technical document or report
- 84** José Ignacio Serrano. MÉTODOS DE OPTIMIZACIÓN Y COMBINACIÓN PARA MEJORAR LA CLASIFICACIÓN DE TEXTOS Tipo: Informe técnico confidencial para la empresa OPTENET S.A. Optenet S.A., 2002.  
**Type of production:** Scientific-technical report  
**Position of signature:** 1  
**Format:** Scientific and technical document or report



85

J. Ignacio Serrano; Julián Benito-León; Alex Holobar; Eduardo Rocon. Machine Support to Discrimination of Parkinson's Disease and Essential Tremor. IFMBE 2020 Proceedings. 76, pp. 1638 - 1643. Springer, 2021. Available on-line at: <[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075858208&doi=10.1007%2f978-3-030-31635-8\\_201&partnerID=40&md5=4408d3891cfad66710c21977e23bd](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075858208&doi=10.1007%2f978-3-030-31635-8_201&partnerID=40&md5=4408d3891cfad66710c21977e23bd)>  
ISSN 16800737, ISBN 9783030316341

**DOI:** 10.1007/978-3-030-31635-8\_201

**Type of production:** Conference Proceedings

**Position of signature:** 1

**Total no. authors:** 4

**Format:** Book

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

86

Carlos A. S. Filho; J. Ignacio Serrano; Romis Attux; Gabriela Castellano; Eduardo Rocon; M. Dolores del Castillo. Criteria for event-related (de)synchronization detection and feature consistency for motor imagery-based neuromodulation. Proceedings - IEEE 20th International Conference on Bioinformatics and Bioengineering, BIBE 2020. pp. 588 - 585. IEEE, 2020. Available on-line at: <[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075858208&doi=10.1007%2f978-3-030-31635-8\\_201&partnerID=40&md5=4408d3891cfad66710c21977e23bd](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075858208&doi=10.1007%2f978-3-030-31635-8_201&partnerID=40&md5=4408d3891cfad66710c21977e23bd)>  
ISBN 9781728195742

**DOI:** 10.1109/BIBE50027.2020.00101

**Type of production:** Conference Proceedings

**Position of signature:** 2

**Total no. authors:** 6

**Format:** Book

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

87

Carlos A. S. Filho; J. Ignacio Serrano; Romis Attux; Gabriela Castellano; M. Dolores del Castillo; Eduardo Rocon. Feature Consistency Criterion for Motor Imagery-Based Neuromodulation. ICNR2020: Converging Clinical and Engineering Research on Neurorehabilitation IV. pp. 539 - 543. Springer International Publishing, 2020. ISBN 978-3-030-70316-5

**DOI:** 10.1007/978-3-030-70316-5\_86

**Type of production:** Conference Proceedings

**Position of signature:** 2

**Total no. authors:** 6

**Format:** Book

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

88

Juan Pablo Romero; Aida Arroyo; Jorge Andreo; M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon; Norberto Malpica; Helena Melero; Emilio Sanz; Mario Gil; Enrique Rodríguez. EEG GUIDED NEUROFEEDBACK BOOSTS EFFECTS OF MOTOR CORTEX NEUROMODULATION OF rTMS IN PARKINSON'S DISEASE PATIENTS. Movement Disorders. 34 - Suppl. 2, pp. S896. 2019.

**Type of production:** Actas de Congreso

**Position of signature:** 5

**Total no. authors:** 11

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 8,222

**Position of publication:** 12

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - CLINICAL NEUROLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 199

89

M. Dolores del Castillo; J. Ignacio Serrano; Enrique Rodríguez; Eduardo Rocon; Juan Pablo Romero; Jorge Andreo; Aida Arroyo; Norberto Malpica; Helena Melero; Manuel Gil; Emilio Sanz. EFFECTS OF THE NEUROMODULATION OF SENSORIMOTOR RHYTHMS ON THE EVENT-RELATED DESYNCHRONIZATION PHENOMENON IN PARKINSON'S DISEASE. Movement Disorders. 34 - Suppl. 2, pp. S500. 2019.

**Type of production:** Actas de Congreso

**Position of signature:** 2

**Total no. authors:** 11

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 8,222  
**Position of publication:** 12

**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 199

- 90** Diego Herraiez-Aguilar; Ana Maitín; Ramiro Perezzan; M. Dolores del Castillo; J. Ignacio Serrano; Enrique Rodríguez; Eduardo Rocon; Aida Arroyo; Jorge Andreo; Juan Pablo Romero. INFLUENCE OF SPATIAL FILTERING ON EEG SIGNAL STOCHASTICITY MEASUREMENTS IN PARKINSON'S DISEASE. Movement Disorders. 34 - Suppl. 2, pp. S360. 2019.

**Type of production:** Actas de Congreso  
**Position of signature:** 5

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 10

**Corresponding author:** No

**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 8,222  
**Position of publication:** 12

**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 199

- 91** Juan Pablo Romero; Aida Arroyo; Jorge Andreo; M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon; Norberto Malpica; Helena Melero; Emilio Sanz; Pedro Serrano; Enrique Rodríguez. VIRTUAL REALITY EEG GUIDED MOTOR NEUROFEEDBACK TRAINING HAS MID-TERM EFFECTS IN PARKINSON'S DISEASE PATIENTS LIMITS OF STABILITY. Movement Disorders. 34 - Suppl. 2, pp. S896. 2019.

**Type of production:** Actas de Congreso  
**Position of signature:** 5

**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 11

**Corresponding author:** No

**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 8,222  
**Position of publication:** 12

**Category:** Science Edition - CLINICAL NEUROLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 199

- 92** M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon. CONSECUENCIAS DE LA NEUROMODULACIÓN ENDÓGENA EN EL FENÓMENO DE LA DESINCRONIZACIÓN DE LOS RITMOS SENSORIMOTORES EN LA ENFERMEDAD DE PARKINSON. Actas de 11º Simposio CEA de Bioingeniería. pp. 154 - 163. Editorial Univesitat Politècnica de València, 2019. ISBN 978-84-9048-793-8

**DOI:** <http://dx.doi.org/10.4995/CEABioIng.2019.10030>

**Type of production:** Actas de congreso  
**Position of signature:** 2

**Format:** Book  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 3

**Corresponding author:** No

- 93** J. Ignacio Serrano; Julián Benito-León; Aleš Holobar; Eduardo Rocon. MACHINE SUPPORT TO DISCRIMINATION OF PARKINSON'S DISEASE AND ESSENTIAL TREMOR. MEDICON 2019, IFMBE Proceedings. 76, pp. 1638 - 1643. Springer Nature Switzerland, 2019.

**Type of production:** Actas de congreso  
**Position of signature:** 1

**Format:** Book  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 4

**Corresponding author:** Yes

- 94** Jorge Andreo; Juan Pablo Romero; Verónica Cortés; Aida Arroyo; Pedro Serrano; M. Dolores del Castillo; J. Ignacio Serrano. EL IMPACTO DE LA ESTABILIDAD POSTURAL EN LA ESCALA HY. Actas de la XVI Reunión Anual de la Asociación Madrileña de Neurología. 2018.

**Type of production:** Actas de congreso  
**Position of signature:** 7

**Format:** Book



**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 7

- 95** Miguel A. Velasco; Roberto López-Blanco; Juan P. Romero; M. Dolores del Castillo; J. Ignacio Serrano; Julián Benito-León; Eduardo Rocon. ASSESSMENT OF TREMOR SEVERITY IN PATIENTS WITH ESSENTIAL TREMOR USING SMARTWATCHES. Proceedings of XXXVIII Jornadas de Automática. pp. 347 - 352. 2017.

**Type of production:** Actas de congreso

**Position of signature:** 5

**Total no. authors:** 7

- 96** Cristina Bayón; Óscar Ramírez; María Dolores del Castillo; José Ignacio Serrano; Rafael Raya; Juan Manuel Belda-Lois; Raket Poveda; Francisco Mollá; Teresa Martín; Ignacio Martínez-Caballero; Sergio Lerma-Lara; Eduardo Rocon. CP-WALKER: ROBOTIC PLATFORM FOR GAIT REHABILITATION IN PATIENTS WITH CEREBRAL PALSY. Proceedings of the 2016 IEEE International Conference on Robotics and Automation, ICRA 2016. 5, pp. 3736 - 3741. IEEE Robotics & Automation Society, 2016.

**Type of production:** Actas de congreso

**Position of signature:** 4

**Total no. authors:** 12

**Format:** Book

**Degree of contribution:** Author or co-author of chapter in book

- 97** Cristina Bayón; Óscar Ramírez; Miguel Velasco; J. Ignacio Serrano; Sergio Lerma; Eduardo Rocon. PILOT STUDY OF A NOVEL ROBOTIC PLATFORM FOR GAIT REHABILITATION IN CHILDREN WITH CEREBRAL PALSY. Proceedings of 6th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechanics (BioRob). pp. 882 - 887. IEEE, 2016.

**Type of production:** Actas de congreso

**Position of signature:** 4

**Total no. authors:** 4

**Format:** Book

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

- 98** Roberto López-Blanco; Juan P. Romero; Miguel Velasco; J. Ignacio Serrano; M. Dolores del Castillo; Eduardo Rocon; Julián Benito-León. PLATAFORMA PARA EL SEGUIMIENTO DE LOS TRASTORNOS DEL MOVIMIENTO: NETMD. Proceedings of LXVIII Reunión Anual de la Sociedad Española de Neurología. 2016.

**Type of production:** Actas de congreso

**Position of signature:** 4

**Total no. authors:** 7

- 99** M. Dolores del Castillo; J. Ignacio Serrano; Jesús Oliva. COMPUTATIONAL COGNITIVE MODELING OF INFLECTIONAL VERB MORPHOLOGY IN SPANISH-SPEAKERS FOR THE CHARACTERIZATION AND DIAGNOSIS OF ALZHEIMER'S DISEASE. Proceedings of the 2ND Workshop of Computational Linguistics and Clinical Psychology: From Linguistic Signal to Clinical Reality, NAACL HLT 2015. pp. 61 - 70. Association for Computational Linguistics, 2015.

**Type of production:** Actas de Congreso

**Position of signature:** 2

**Total no. authors:** 3

**Format:** Book

- 100** Cristina Bayón; Eduardo Rocon; Rafael Raya; Óscar Ramírez; M. Dolores del Castillo; J. Ignacio Serrano; Sergio Lerma. CP-WALKER: PLATAFORMA ROBÓTICA PARA LA REHABILITACIÓN DE LA MARCHA EN NIÑOS CON PARÁLISIS CEREBRAL. Proceedings of VI Congreso Internacional de Diseño, Redes de Investigación y Tecnología para todos (DRT4all). pp. 417 - 431. Fundación ONCE, 2015.

**Type of production:** Actas de Congreso

**Position of signature:** 6

**Total no. authors:** 7

**Format:** Book

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee



**Total no. authors: 7**

- 101** Jaime Ibáñez; J. Ignacio Serrano; M. Dolores del Castillo; Esther Monge; Francisco Molina; José L. Pons. A FEASIBILITY STUDY OF AN EEG-BASED ASSOCIATIVE FACILITATION INTERVENTION FOR CHRONIC STROKE PATIENTS. Proceedings of 2015 Minnesota Neuromodulation Symposium. pp. NM-137. University of Minnesota, 2015.

**Type of production:** Actas de congreso

**Position of signature:** 2

**Total no. authors:** 6

- 102** Félix Bermejo-Pareja; J. Hernández-Gallego; S. Llamas; José Ignacio Serrano; E. Boycheva; Rocío Trincado; S. Vega-Quiroga; J. Cacho; F. Sierra-Hidalgo; A. Sánchez-Ferro; E. Cubo; Julián Benito-León. NEDICES-2 (NEUROLOGICAL DISORDERS IN CENTRAL SPAIN SEGUNDO ESTUDIO). DATOS PRINCIPALES DE SU ESTUDIO PILOTO. Proceedings of the LXVII Annual Meeting of Spanish Neurology Society. 2015.

**Type of production:** Actas de congreso

**Format:** Book

**Position of signature:** 4

**Degree of contribution:** Author or co-author of chapter in book

**Total no. authors:** 12

- 103** Jesús Hernández-Gallego; Sara Llamas; J. Ignacio Serrano; Elina Boycheva; Rocío Trincado; Saturio Vega Quiroga; Jesús Cacho; Fernando Sierra Hidalgo; Álvaro Sánchez Ferrero; Esther Cubo; Julián Benito-León. NEDICES-2 (NEUROLOGICAL DISORDERS IN CENTRAL SPAIN SEGUNDO ESTUDIO). DATOS PRINCIPALES DE SU ESTUDIO PILOTO. Proceedings of LXVII Reunión Anual de la Sociedad Española de Neurología. 2015.

**Type of production:** Actas de congreso

**Position of signature:** 4

**Total no. authors:** 12

**Corresponding author:** No

- 104** Jaime Ibáñez; J. Ignacio Serrano; M. Dolores del Castillo; Esther Monge; Francisco Molina; Isabela Alguacil; Raúl Cano; María Carratalá; A. Cuesta; Juan C. Miangolarra; José L. Pons. RECALIBRACIÓN ENTRE SESIONES EN SISTEMAS DE BCI PARA LA DETECCIÓN DE LA INTENCIÓN DE MOVIMIENTO. Actas del VIII Congreso Iberoamericano de Tecnologías de Apoyo a la Discapacidad. Iberdiscap 2015. (Chile): 2015.

**Type of production:** Actas de congreso

**Format:** Book

**Position of signature:** 2

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 11

- 105** Rafael Raya; Óscar Ramírez; M. Dolores del Castillo; J. Ignacio Serrano; Ángel Iglesias; Ramón Ceres; Eduardo Rocon. CPWALKER - PLATAFORMA ROBÓTICA PARA LA REHABILITACIÓN Y EL ENTRENAMIENTO DE LA MARCHA EN PACIENTES CON PARÁLISIS CEREBRAL. Actas de las XXXV Jornadas de Automática. Valencia(Spain): 2014.

**Type of production:** Actas de Congreso

**Format:** Book

**Corresponding author:** Yes

- 106** Sergio Lerma; Teresa Martín; J. Ignacio Serrano; M. Dolores del Castillo. ACTIVIDAD EEG DURANTE DOS TIPOS DE ESTIMULACIÓN SENSITIVA. A PROPÓSITO DE UN CASO. Proceedings of II Congreso Internacional de Dolor Musculoquelético y Movimiento. Centro de Estudios Universitarios La Salle, 2014.

**Type of production:** Actas de congreso

**Format:** Book

**Position of signature:** 3

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 4



- 107** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Esther Monge; Francisco Molina; Francisco M. Rivas; Isabela Alguacil; Juan Carlos Miangolarra Page; José Luis Pons. DETECTION OF THE ONSET OF VOLUNTARY MOVEMENTS BASED ON THE COMBINATION OF ERD AND BP CORTICAL PATTERNS Publicación: W. Jensen. Replace, Repair, Restore, Relieve – Bridging Clinical and Engineering Solutions in Neurorehabilitation, Biosystems & Biorobotics. 7, pp. 437. Chicago, USA. Springer, 2014.  
**Type of production:** Actas de congreso  
**Position of signature:** 2  
**Total no. authors:** 9  
**Format:** Book  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
- 108** Jaime Ibáñez; Esther Monge; José Ignacio Serrano; María Dolores del Castillo; Francisco Molina; José Luis Pons. ERD- VS BP-BASED MOVEMENT ONSET DETECTIONS IN STROKE PATIENTS. Replace, Repair, Restore, Relieve – Bridging Clinical and Engineering Solutions in Neurorehabilitation, Biosystems & Robotics (Procs. Of ISEK 2014). 7, pp. 437. 2014.  
**Type of production:** Actas de congreso  
**Position of signature:** 3  
**Total no. authors:** 6  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book
- 109** Jaime Ibáñez; María Dolores del Castillo; José Ignacio Serrano. INTEGRACIÓN DE CARACTERÍSTICAS DE LA SEÑAL DE ELECTROENCEFALOGRAFÍA PARA LA DETECCIÓN DEL INICIO DE MOVIMIENTOS VOLUNTARIOS. Proceedings of the 6th Symposium CEA Bioengineering 2014. 2014.  
**Type of production:** Actas de congreso  
**Position of signature:** 3  
**Total no. authors:** 3  
**Format:** Book  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
- 110** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Esther Monge; Francisco Molina; Francisco M. Rivas; Isabela Alguacil; Juan Carlos Miangolarra Page; José Luis Pons. UPPER-LIMB MUSCULAR ELECTRICAL STIMULATION DRIVEN BY EEG-BASED DETECTIONS OF INTENTIONS TO MOVE: A PROPOSED INTERVENTION FOR PATIENTS WITH STROKE Publicación: Proceedings of the 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society 2014. Proceedings of the 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society 2014. pp. 1646 - 1649. IEEE, 2014.  
**Type of production:** Actas de congreso  
**Position of signature:** 2  
**Total no. authors:** 9  
**Format:** Book
- 111** Jesús Oliva; José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. COMPUTATIONAL COGNITIVE MODELING FOR THE DIAGNOSIS OF SPECIFIC LANGUAGE IMPAIRMENT Publicación: Studies in Health Technology and Informatics. Data and Knowledge for Medical Decision Support. Studies in Health Technology and Informatics. Data and Knowledge for Medical Decision Support. 198, pp. 88 - 92. Sevilla, Spain. IOS Press, 2013.  
**Type of production:** Actas de Congreso  
**Position of signature:** 2  
**Format:** Book
- 112** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Francisco Molina; Esther Monge; Francisco M. Rivas; Juan Carlos Miangolarra; José Luis Pons. SINGLE-TRIAL DETECTION OF THE EVENT-RELATED DESYNCHRONIZATION TO LOCATE WITH TEMPORAL PRECISION THE ONSET OF VOLUNTARY MOVEMENTS IN STROKE PATIENTS Publicación: Proceedings of the XIII Mediterranean Conference on Medical and Biological Engineering, MEDICON2013. Proceedings of the XIII Mediterranean Conference on Medical and Biological Engineering, MEDICON2013. 41, pp. 1651 - 1654. Aalborg, Denmark. Springer, 2013.  
**Type of production:** Actas de congreso  
**Position of signature:** 2  
**Total no. authors:** 8  
**Format:** Book  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee



- 113** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. ASYNCHRONOUS BCIS FOR THE EARLY DETECTION AND CLASSIFIATION OF VOLUNTARY MOVEMENTS: APPLICATIONS IN STROKE REHABILITATION Publicación: Converging Clinical and Engineering Research on Neurorehabilitation. Proceedings of the 1st International Conference on Neural Rehabilitation – ICNR 2012. Converging Clinical and Engineering Research on Neurorehabilitation. Proceedings of the 1st International Conference on Neural Rehabilitation – ICNR 2012. I, pp. 629 - 633. Prague, Czech Republic. Springer, 2012.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 114** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. KNOWLEDGE-BASED MODELING IN DYNAMIC DECISION MAKING Publicación: Proceedings of the 34th Annual Meeting of the Cognitive Science Society - CogSci 2012. Proceedings of the 34th Annual Meeting of the Cognitive Science Society - CogSci 2012. pp. 1715 - 1720. Cognitive Science Society, 2012.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 3
- 115** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Luis J. Barrios; Juan Álvaro Gallego; Eduardo Rocon; E.. AN EEG-BASED DESIGN FOR THE ONLINE DETECTION OF MOVEMENT INTENTION Publicación: Advances in Computational Intelligence. 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, Proceedings, Part II. Lecture Notes in Computer Science. Advances in Computational Intelligence. 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, Proceedings, Part II. Lecture Notes in Computer Science. 6692, pp. 370 - 377. Berlin, Alemania. Springer, 2011.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 116** José Ignacio Serrano; María Dolores del Castillo. DO ARTIFICIAL GENERAL INTELLIGENT SYSTEMS REALLY NEED TO BE CONSCIOUS? Publicación: Proceedings of the 3rd International Conference on Agents and Artificial Intelligence – ICAART 2011. Proceedings of the 3rd International Conference on Agents and Artificial Intelligence – ICAART 2011. pp. 674 - 676. SciTePress, 2011.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 117** Jesús Oliva; José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. SMS NORMALIZATION: COMBINING PHONETICS, MORPHOLOGY AND SEMANTICS Publicación: Advances in Artificial Intelligence. Proceedings of the Conference of the Spanish Society of Artificial Intelligence (CAEPIA'11). Lecture Notes in Computer Science. Advances in Artificial Intelligence. Proceedings of the Conference of the Spanish Society of Artificial Intelligence (CAEPIA'11). Lecture Notes in Computer Science. 7023, pp. 273 - 282. Springer-Verlag, 2011.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 118** José Ignacio Serrano; María Dolores del Castillo; Jesús Oliva; Ángel Iglesias. THE INFLUENCE OF STOP-WORDS AND STEMMING ON HUMAN TEXTBASE COMPREHENSION Publicación: European Perspectives on Cognitive Science: Proceedings of the European Conference on Cognitive Science – EuroCogSci 2011. European Perspectives on Cognitive Science: Proceedings of the European Conference on Cognitive Science – EuroCogSci 2011. Rome, Italy. New Bulgarian University Press, 2011.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 119** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. A PSYCHOLOGICAL AND NEUROPHYSIOLOGICAL PLAUSIBLE MODEL FOR EMULATING HUMAN BEHAVIOR IN DECISION MAKING TASKS Publicación: Proceedings of Brain Inspired Cognitive Systems – BICS2010. Proceedings of Brain Inspired Cognitive Systems – BICS2010. pp. 172 - 182. ICSC Interdisciplinary Research and NAISO, 2010.  
**Type of production:** Actas de Congreso **Format:** Book

**Position of signature: 3**

- 120** Jaime Ibáñez; José Ignacio Serrano; María Dolores del Castillo; Luis J. Barrios. AN ASYNCHRONOUS BMI SYSTEM FOR ONLINE SINGLE-TRIAL DETECTION OF MOVEMENT INTENTION Publicación: Proceedings of 32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'2010.Proceedings of 32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'2010.pp. 4562 - 4565. IEEE, 2010.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 2**
- 121** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. AN ITERATIVE DECISION SUPPORT SYSTEM FOR MANAGING FIRE EMERGENCIES Publicación: Proceedings of 9th International FLINS Conference on Foundations and Applications of Computational Intelligence.Proceedings of 9th International FLINS Conference on Foundations and Applications of Computational Intelligence. pp. 820 - 825. World Scientific Proceedings, 2010.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 3**
- 122** Jesús Oliva; José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. COGNITVE MODELLING OF THE ACQUISITION OF A HIGHLY INFLECTED VERBAL SYSTEM Publicación: Proceedings of International Conference on Cognitive Modeling ICCM 2010.Proceedings of International Conference on Cognitive Modeling ICCM 2010. pp. 181 - 186. Berlín, Alemania.2010.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 2**
- 123** José Ignacio Serrano; Jaime Ibáñez; María Dolores del Castillo; Luis J. Barrios; Ana Rosa Victoria. MACHINE LEARNING AND DATA MINING FOR EEG SINGLE-TRIAL PRIOR DETECTION OF VOLUNTARY MOVEMENT Publicación: Abstracts of XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010.Abstracts of XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010. CD-ROM, Madrid.Department of Health Science and Technology, Aalborg University, 2010.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 1**
- 124** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. 2ND POSITION IN DYNAMIC STOCKS & FLOWS CHALLENGE WITHIN MODELING COMPARISON CHALLENGE: PREDICTING COGNITIVE PERFORMANCE IN OPEN-ENDED DYNAMIC TASKS Publicación: Proceedings of 9th International Conference on Cognitive Modeling.Proceedings of 9th International Conference on Cognitive Modeling. Aalborg, Denmark.2009.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 3**
- 125** Ángel Iglesias; María Dolores del Castillo; Matilde Santos; José Ignacio Serrano; Jesús Oliva. A COMPARISON BETWEEN POSSIBILITY AND PROBABILITY IN MULTIPLE CRITERIA DECISION MAKING Publicación: Proceedings of 8th International FLINS Conference on Computational Intelligence in Decision and Control.Proceedings of 8th International FLINS Conference on Computational Intelligence in Decision and Control. pp. 307 - 312. World Scientific Proceedings, 2008.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 4**
- 126** Ángel Iglesias; María Dolores del Castillo; José Ignacio Serrano; Jesús Oliva. A COMPARISON OF HYBRID DECISION MAKING METHODS FOR EMERGENCY SUPPORT Publicación: Proceedings of 8th International Conference on Hybrid Intelligent Systems HIS08.Proceedings of 8th International Conference on Hybrid Intelligent Systems HIS08. pp. 162 - 167. IEEE Computer Society Press, 2008.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature: 3**



- 127** José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias. CHARACTERIZING INDIVIDUAL INTEREST BY A COMPUTATIONAL MODEL OF READING Publicación: Advances in Cognitive Neurodynamics: Proceedings of International Conference on Cognitive Neurodynamics ICCN 2007. Advances in Cognitive Neurodynamics: Proceedings of International Conference on Cognitive Neurodynamics ICCN 2007. pp. 539 - 544. Barcelona, Spain. Springer, 2008.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 128** José Ignacio Serrano; María Dolores del Castillo; Ángel Iglesias; Jesús Oliva. CHARACTERIZING PRIOR KNOWLEDGE-ATTENTION RELATIONSHIP BY A COMPUTATIONAL MODEL OF COGNITIVE READING Publicación: Proceedings of WCCI- International Joint Conference on Neural Networks IJCNN 2008. Proceedings of WCCI- International Joint Conference on Neural Networks IJCNN 2008. pp. 882 - 887. Manchester, UK. INNS and IEEE Computational Intelligence Society Press, 2008.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 129** José Ignacio Serrano; Ángel Iglesias; María Dolores del Castillo. A CONNECTIONIST MODEL OF HUMAN READING. Lecture Notes in Computer Science. 4507, pp. 1106 - 1113. Alemania. Springer-Verlag, 2007.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 130** María Dolores del Castillo; Ángel Iglesias; José Ignacio Serrano. AN INTEGRATED APPROACH TO FILTERING PHISHING E-MAILS Publicación: Lecture Notes in Computer Science. ISSN 0302-9743. Lecture Notes in Computer Science. 4739, pp. 321 - 328. Orlando, USA. Springer-Verlag, 2007.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 3
- 131** Ángel Iglesias; María Dolores del Castillo; Matilde Santos; José Ignacio Serrano. CONTROL PARA LA TOMA DE DECISIONES CON MÚLTIPLES CRITERIOS: ESTUDIO COMPARATIVO DE TÉCNICAS INTELIGENTES Publicación: Proceedings of Jornadas de Automática 2007. Proceedings of Jornadas de Automática 2007. Alemania. 2007.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 4
- 132** María Dolores del Castillo; Ángel Iglesias; José Ignacio Serrano. DETECTING PHISHING E-MAILS BY HETEROGENEOUS CLASSIFICATION. Lecture Notes in Computer Science. 4881, pp. 296 - 305. Springer-Verlag, 2007.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 3
- 133** José Ignacio Serrano; Ángel Iglesias; María Dolores del Castillo. MODELING HUMAN READING IN CONCEPTUAL NETWORKS FOR TEXT REPRESENTATION AND COMPARISON Publicación: Proceedings of XX International Joint Conference on Neural Networks IJCNN 2007. Proceedings of XX International Joint Conference on Neural Networks IJCNN 2007. pp. 613 - 618. Madrid, Spain. INNS and IEEE Computational Intelligence Society, 2007.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 134** José Ignacio Serrano Moreno; Ángel Iglesias; María Dolores del Castillo. TEXT SIMILARITY BASED ON A COGNITIVE MODEL OF READING Publicación: Proceedings of Machine Learning and Data Mining MLDM2007. Proceedings of Machine Learning and Data Mining MLDM2007. pp. 27 - 40. IBAI Publishing, 2007.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1



- 135** María Dolores del Castillo; José Ignacio Serrano. AN INTERACTIVE HYBRID SYSTEM FOR IDENTIFYING AND FILTERING UNSOLICITED E-MAIL. Lecture Notes in Computer Science. 4224, pp. 779 - 788. AlemaniaSpringer-Verlag, 2006.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 136** María Dolores del Castillo; José Ignacio Serrano; Ángel Iglesias. CRI, A COMPUTATIONAL MODEL OF COGNITIVE READING FOR DOCUMENT INDEXING Publicación: Proceedings of Brain-Inspired Cognitive Systems BICS06.Proceedings of Brain-Inspired Cognitive Systems BICS06. pp. 66 - 72. Praga.MatfyzPress., 2006.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 137** José Ignacio Serrano. MACHINE LEARNING METHODS FOR KNOWLEDGE DISCOVERY IN MEDICAL DATA ON ATHEROSCLEROSIS Publicación: Proceedings of Doktorándsky den '06.Proceedings of Doktorándsky den '06. pp. 143 - 155. MatfyzPress, 2006.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 138** José Ignacio Serrano; María Dolores del Castillo. TEXT REPRESENTATION BY A COMPUTATIONAL MODEL OF READING. Lecture Notes in Computer Science. 4232, pp. 237 - 246. Alemania.Springer-Verlag, 2006.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 139** José Ignacio Serrano; María Dolores del Castillo. AN INTERACTIVE HYBRID SYSTEM FOR IDENTIFYING AND FILTERING UNSOLICITED EMAIL Publicación: Proceedings de IEEE/WIC/ACM International Conference on. Proceedings of IEEE/WIC/ACM International Conference on Web Intelligence 2005. 2, pp. 814 - 815. Alemania.IEEE/WIC/ACM, IEEE Computer Society Press, 2005.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 140** José Ignacio Serrano; Lourdes Araujo. EVOLUTIONARY ALGORITHM FOR NOUN PHRASE DETECTION IN NATURAL LANGUAGE PROCESSING Publicación: Proceedings of IEEE CEC05.Proceedings of IEEE Conference on Evolutionary Computation - CEC05. 1, pp. 640 - 646. IEEE Computer Society Press, 2005.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 141** José Ignacio Serrano; Javier Alonso; María Dolores del Castillo; José Eugenio Naranjo. EVOLUTIONARY OPTIMIZATION OF AUTONOMOUS VEHICLE TRACKS Publicación: Proceedings of IEEE CEC05.Proceedings of IEEE Conference on Evolutionary Computation - CEC05. 2, pp. 1332 - 1339. IEEE Computer Society Press, 2005.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 142** José Ignacio Serrano; Javier Alonso; María Dolores del Castillo; José Eugenio Naranjo. EVOLUTIONARY SENSORIAL DATA MINING FOR AUTONOMOUS NAVIGATION Publicación: Proceedings of EUROSENSORS XIX.Proceedings of EUROSENSORS XIX. II - W, pp. WPa44. Canadá.Universidad Autónoma de Barcelona, 2005.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 143** José Ignacio Serrano; Almudena Moreno; María Dolores del Castillo; Héctor Rodríguez. FACE IDENTIFICATION INTERFACE FOR COMMON REAL-LIFE SYSTEMS Publicación: Ambient Intelligence and (Everyday) Life, AmiLife05.Ambient Intelligence and (Everyday) Life, AmiLife05. pp. 37 - 45. EHUKo Uda Ikastaroak, 2005.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1



- 144** Javier Alonso; José Ignacio Serrano; María Teresa De Pedro; Carlos González; Ricardo García. OPTIMIZATION OF AN AUTONOMOUS CAR FUZZY CONTROL SYSTEM VIA GENETIC ALGORITHMS Publicación: Proceedings of Workshop on Genetic Fuzzy Systems - GFS 2005. Proceedings of Workshop on Genetic Fuzzy Systems - GFS 2005. pp. 101 - 106. 2005.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 145** José Ignacio Serrano; María Dolores del Castillo. GENETIC EXTRACTION OF TEXT CATEGORY DESCRIPTIONS Publicación: Proceedings of World Automation Congress WAC2004.Proceedings of World Automation Congress WAC2004. 4, pp. 7 - 12. TSI Press, 2004.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 146** José Ignacio Serrano; María Dolores del Castillo. MODELLING DOCUMENTS CATEGORIES BY EVOLUTIONARY LEARNING OF TEXT CENTROIDS Publicación: Proceedings of Artificial Intelligence Applications and Innovations AIAI IFIP 2004.Proceedings of Artificial Intelligence Applications and Innovations AIAI IFIP 2004. pp. 359 - 368. Kluwer Academic Publisher, 2004.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 147** María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. ARQUITECTURA MULTIAGENTE PARA LA ASIGNACIÓN DE CATEGORÍAS A TEXTOS. Proceedings of Jornadas para el Tratamiento y Recuperación de Información JOTRI'03. pp. 33 - 40. Universidad Carlos III de Madrid, 2003.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 148** José Ignacio Serrano; María Dolores del Castillo; María Paz Sesmero. GENETIC LEARNING OF TEXT PATTERNS. Proceedings of Conferencia de la Asociación Española para la Inteligencia Artificial CAEPIA2003. I, pp. 231 - 233. Universidad del País Vasco., 2003.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 1
- 149** María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. MULTIAGENT ARCHITECTURE FOR TEXT CATEGORIZATION. Proceedings of Conferencia de la Asociación Española para la Inteligencia Artificial CAEPIA2003. I, pp. 149 - 152. Universidad del País Vasco, 2003.  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2
- 150** María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. COLLABORATIVE MULTISTRATEGY TEXT CATEGORIZATION. Learning'02. Madrid, Madrid, Comunidad de(Spain): Universidad Carlos III de Madrid, 2002. ISBN 84-89315-27-2  
**Type of production:** Actas de Congreso **Format:** Book  
**Position of signature:** 2



## Works submitted to national or international conferences

- 1** **Title of the work:** MODELADO COMPUTACIONAL COGNITIVO EL JUEGO DE IOWA PARA LA CARACTERIZACIÓN DE LA TOMA DE DECISIONES EN CONSUMIDORES DE METANFETAMINA  
**Name of the conference:** Robótica e Inteligencia Artificial: Retos y Nuevas Oportunidades  
**Type of event:** Conference  
**Type of participation:** Participatory - poster **Reasons for participation:** Review before acceptance  
**Corresponding author:** Yes  
**City of event:** Madrid, Spain  
**Date of event:** 2019  
**Organising entity:** RoboCity2030-DIH-CM **Type of entity:** Public Research Body  
**With external admission assessment committee:** Yes  
J. Ignacio Serrano; M. Dolores del Castillo. "Proceedings".
- 2** **Title of the work:** VALIDACIÓN DE UN SISTEMA DE NEUROMODULACIÓN ENDÓGENA DE LOS RITMOS MOTORES CON REALIDAD VIRTUAL INMERSIVA EN PACIENTES CON PÁRKINSON  
**Name of the conference:** Robótica e Inteligencia Artificial: Retos y Nuevas Oportunidades  
**Type of event:** Conference  
**Type of participation:** Participatory - poster **Reasons for participation:** Review before acceptance  
**Corresponding author:** Yes  
**City of event:** Madrid, Spain  
**Date of event:** 2019  
**Organising entity:** RoboCity2030-DIH-CM **Type of entity:** Public Research Body  
**With external admission assessment committee:** Yes  
J. Ignacio Serrano; M. Dolores del Castillo; Eduardo Rocon. "Proceedings".
- 3** **Title of the work:** CARACTERIZACIÓN DEL "FINGER TAPPING" EN PACIENTES CON EP TRATADOS VERSUS CONTROLES SANOS  
**Name of the conference:** XVI Reunión Anual de la Asociación Madrileña de Neurología  
**Type of event:** Conference  
**Type of participation:** Participatory - poster **Reasons for participation:** Review before acceptance  
**Corresponding author:** No  
**City of event:** Madrid, Spain  
**Date of event:** 2018  
**Organising entity:** Asociación Madrileña de Neurología **Type of entity:** Associations and Groups  
**With external admission assessment committee:** Yes  
Juan Pablo Romero; José Periañez; J. Ignacio Serrano; M. Dolores del Castillo; Eduardo Rocon; Aida Arroyo; Verónica Cortés; Jorge Andreo; Marcos Ríos. "Proceedings".
- 4** **Title of the work:** LA VELOCIDAD DE PROCESAMIENTO Y SU IMPLICACIÓN EN LA EVOLUCIÓN DE LA ENFERMEDAD DE PÁRKINSON  
**Name of the conference:** XVI Reunión Anual de la Asociación Madrileña de Neurología  
**Type of event:** Conference  
**Type of participation:** Participatory - poster **Reasons for participation:** Review before acceptance  
**Corresponding author:** No



**City of event:** Madrid, Spain

**Date of event:** 2018

**Organising entity:** Asociación Madrileña de Neurología

**Type of entity:** Associations and Groups

**With external admission assessment committee:** Yes

Aida Arroyo; José Periañez; Jorge Andreo; Verónica Cortés; Genny Lubrini; Marcos Ríos; J. Ignacio Serrano; M. Dolores del Castillo; Eduardo Rocon; Juan Pablo Romero. "Proceedings".

**5 Title of the work:** PROYECTO NEUROMOD. NEUROMODULACIÓN COMO ESTRATEGIA DE REHABILITACIÓN MOTORA EN PACIENTES CON ENFERMEDAD DE PARKINSON

**Name of the conference:** XVI Reunión Anual de la Asociación Madrileña de Neurología

**Type of event:** Conference

**Type of participation:** Participatory - poster

**Reasons for participation:** Review before acceptance

**Corresponding author:** No

**City of event:** Madrid, Spain

**Date of event:** 2018

**Organising entity:** Asociación Madrileña de Neurología

**Type of entity:** Associations and Groups

**With external admission assessment committee:** Yes

Juan Pablo Romero; Eduardo Rocon; M. Dolores del Castillo; J. Ignacio Serrano; Norberto Malpica; Aida Arroyo; Verónica Cortés; Jorge Andreo; Marcos Ríos. "Proceedings".

**6 Title of the work:** RESPUESTA FARMACOLÓGICA A AGONISTAS DOPAMINÉRGICOS ESTUDIADA MEDIANTE MICROESTADOS EN ELECTROENCEFALOGRAMA EN ENFERMEDAD DE PARKINSON

**Name of the conference:** XVI Reunión Anual de la Asociación Madrileña de Neurología

**Type of event:** Conference

**Type of participation:** Participatory - poster

**Reasons for participation:** Review before acceptance

**Corresponding author:** No

**City of event:** Madrid, Spain

**Date of event:** 2018

**Organising entity:** Asociación Madrileña de Neurología

**Type of entity:** Associations and Groups

Verónica Cortés; J. Ignacio Serrano; Nuno Mendes; M. Dolores del Castillo; Aida Arroyo; Jorge Andreo; Eduardo Rocon; María del Valle; Jaime Herrero; Juan Pablo Romero. "Proceedings".

**7 Title of the work:** An Integrated Approach to Filtering Phishing E-mails

**Name of the conference:** 11th International Conference on Computer Aided Systems Theory - Eurocast 2007.

**Type of event:** Conference

**Type of participation:** Participatory - oral communication

**Reasons for participation:** Review before acceptance

**City of event:** Spain

**Date of event:** 2007

**Organising entity:** Universidad de las Palmas de Gran Canaria

**Type of entity:** University

**With external admission assessment committee:** Yes

María Dolores del Castillo; Ángel Iglesias; José Ignacio Serrano. "Proceedings. IUCTC Universidad de las Palmas de Gran Canaria.". ISBN 978-84-690-3603-7



- 8** **Title of the work:** Machine Learning Methods for Knowledge Discovery in Medical Data on Atherosclerosis  
**Name of the conference:** Doktoránský Den 2006, ICS - Science Academy Czech Republic.  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Upon invitation  
**City of event:** Czech Republic  
**Date of event:** 2006  
**Organising entity:** Academia de Ciencias de la República Checa  
**City organizing entity:** Czech Republic  
**With external admission assessment committee:** Yes  
José Ignacio Serrano. "Proceedings". ISBN 80-86732-87-8
- 9** **Title of the work:** Evolutionary Sensorial Data Mining for Autonomous Navigation  
**Name of the conference:** EUROSENSORS XIX  
**Type of event:** Conference  
**Type of participation:** Participatory - poster  
**Reasons for participation:** Review before acceptance  
**City of event:** Barcelona, Spain  
**Date of event:** 2005  
**Organising entity:** Universitat Autònoma de Barcelona  
**Type of entity:** University  
Serrano; J.I.; Alonso; J.; Del Castillo; M. D.; Naranjo; J. E."Proceedings".
- 10** **Title of the work:** Face Identification Interface for Common Real-Life Systems  
**Name of the conference:** AmlLife05  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** San Sebastián, Spain  
**Date of event:** 2005  
**Organising entity:** EHUko Uda Ikastaroak  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
José Ignacio Serrano; Almudena Moreno; María Dolores del Castillo; Héctor Rodríguez. "Proceedings". ISBN 84-609-6632-1
- 11** **Title of the work:** Statistical Recognition of Noun Phrases in Unrestricted Text  
**Name of the conference:** IDA05  
**Type of event:** Conference  
**Type of participation:** Participatory - poster  
**Reasons for participation:** Review before acceptance  
**City of event:** Madrid, Spain  
**Date of event:** 2005  
**With external admission assessment committee:** Yes  
José Ignacio Serrano; Lourdes Araujo. "Lecture Notes on Computer Science, 3646. Springer."
- 12** **Title of the work:** A Multistrategy Approach for Digital Text Categorization  
**Name of the conference:** MDAI2004  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**Date of event:** 2004



**With external admission assessment committee:** Yes

María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. "Mathware and Soft Computing Journal".

- 13 Title of the work:** Arquitectura Multiagente para la Asignación de Categorías a Textos  
**Name of the conference:** JOTRI'03  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Madrid,  
**Date of event:** 2003  
**Organising entity:** Universidad Carlos III de Madrid  
**Type of entity:** University  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. "Proceedings".

- 14 Title of the work:** Collaborative Multistrategy Text Categorization  
**Name of the conference:** Learning'02  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**City of event:** Madrid, Spain  
**Date of event:** 2002  
**Organising entity:** Universidad Carlos III de Madrid  
**Type of entity:** University  
**With external admission assessment committee:** Yes  
María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. "Proceedings".

## Science Outreach activities

- 1 Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2025  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 2 Title of the work:** El tipo de microbiota intestinal se asocia a diferente actividad cerebral en mayores sanos  
**Type of event:** Media interviews  
**Geographical area:** National  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Madrid,  
**Date of event:** 16/09/2025  
**Organising entity:** Diario Médico  
**Type of entity:** Business  
**With external admission assessment committee:** No  
**Type:** Popular science article  
J. Ignacio Serrano; M. Dolores del Castillo. "Diario Médico". (Spain): Available on-line at: <<https://www.diariomedico.com/medicina/neurologia/tipo-microbiota-intestinal-asocia-diferente-actividad-cerebral-mayores-sanos.html>>.



- 3** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2024  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 4** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2023  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 5** **Title of the work:** Sistemas Inteligentes Artificiales  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Madrid, Spain  
**Date of event:** 04/2023  
**Organising entity:** I.E.S. Joaquín Turina  
**Type of entity:** IES  
**City organizing entity:** Madrid, Spain  
J. Ignacio Serrano.
- 6** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2022  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 7** **Title of the work:** Tu ordenador te lleva el rehabilitador a casa  
**Name of the event:** Noche Europea de los Investigadores  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Pozuelo de Alarcón, Spain  
**Date of event:** 11/2021  
**Organising entity:** Universidad Francisco de Vitoria  
**Type of entity:** University  
J. Ignacio Serrano.



- 8** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2020  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 9** **Title of the work:** ¿Podemos reentrenar nuestro cerebro?  
**Name of the event:** Noche Europea de los Investigadores  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Pozuelo de Alarcón, Spain  
**Date of event:** 11/2019  
**Organising entity:** Universidad Francisco de Vitoria  
**Type of entity:** University  
J. Ignacio Serrano.
- 10** **Title of the work:** ¿Podemos reentrenar nuestro cerebro?  
**Name of the event:** Noche Europea de los Investigadores  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Pozuelo de Alarcón, Spain  
**Date of event:** 11/2019  
**Organising entity:** Universidad Francisco de Vitoria  
**Type of entity:** University  
J. Ignacio Serrano.
- 11** **Title of the work:** Primer robot para rehabilitar 'a medida' a niños con parálisis cerebral  
**Type of event:** Media interviews  
**Corresponding author:** No  
**Date of event:** 03/07/2019  
**Organising entity:** Diario El Mundo  
**Type of entity:** Business  
Eduardo Rocon; Ignacio Martínez-Caballero; J. Ignacio Serrano.
- 12** **Title of the work:** Sistemas Inteligentes Artificiales  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Madrid, Madrid, Comunidad de, Spain  
**Date of event:** 04/2019  
**Organising entity:** I.E.S. Antonio Fraguas "Forges"  
**City organizing entity:** Madrid, Madrid, Comunidad de, Spain  
J. Ignacio Serrano.
- 13** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2018  
**Type of entity:** State agency



**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA

J. Ignacio Serrano.

**14 Title of the work:** Ventanas a la Cognición

**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Arganda del Rey, Spain

**Date of event:** 11/2017

**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA

**Type of entity:** State agency

J. Ignacio Serrano.

**15 Title of the work:** La rugosidad del cortex puede desvelar los temblores esenciales

**Type of event:** Media interviews

**Corresponding author:** Yes

**City of event:** Madrid,

**Date of event:** 22/05/2017

**Organising entity:** Diario Médico

**Type of entity:** Business

J. Ignacio Serrano.

**16 Title of the work:** Ventanas a la Cognición

**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Arganda del Rey, Spain

**Date of event:** 11/2016

**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA

**Type of entity:** State agency

J. Ignacio Serrano.

**17 Title of the work:** Rehabilitación de miembro superior en Ictus mediante Realidad Virtual

**Name of the event:** XVIII Congreso de la SMGG 2016

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Madrid, Spain

**Date of event:** 20/10/2016

**Organising entity:** Sociedad Madrileña de Geriátría y Gerontología

**Type of entity:** Associations and Groups

**City organizing entity:** Madrid, Madrid, Comunidad de, Spain

J. Ignacio Serrano.

**18 Title of the work:** Avances tecnológicos recientes para la Rehabilitación Cognitiva

**Name of the event:** Jornada de Rehabilitación Cognitiva

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Madrid, Spain

**Date of event:** 12/05/2016

**Organising entity:** Sociedad Madrileña de Geriátría y Gerontología

**Type of entity:** Associations and Groups



**City organizing entity:** Madrid, Madrid, Comunidad de, Spain  
J. Ignacio Serrano.

**19 Title of the work:** Ventanas a la Cognición

**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Arganda del Rey, Spain

**Date of event:** 11/2015

**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA

**Type of entity:** State agency

J. Ignacio Serrano.

**20 Title of the work:** Demostración de interfaces cerebro computador para control de exoesqueleto

**Type of event:** Demostración

**Geographical area:** National

**City of event:** Madrid,

**Date of event:** 07/2015

**Organising entity:** ENTE PUBLICO RADIO TELEVISION ESPAÑOLA, S.A.

**City organizing entity:** Madrid, Spain

"Órbita Laika".

**21 Title of the work:** Ventanas a la Cognición

**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Arganda del Rey, Spain

**Date of event:** 11/2014

**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA

**Type of entity:** State agency

J. Ignacio Serrano.

**22 Title of the work:** Sistemas Inteligentes Artificiales

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Madrid, Spain

**Date of event:** 04/2014

**Organising entity:** I.E.S. San Isidro

**City organizing entity:** Madrid, Spain

J. Ignacio Serrano.

**23 Title of the work:** Ventanas a la Cognición

**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia

**Type of event:** Conferences given

**Corresponding author:** Yes

**City of event:** Arganda del Rey, Spain

**Date of event:** 11/2013

**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA

**Type of entity:** State agency

J. Ignacio Serrano.



- 24** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2012  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 25** **Title of the work:** Sistemas Inteligentes Artificiales  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Madrid, Spain  
**Date of event:** 04/2012  
**Organising entity:** I.E.S. Cardenal Cisneros  
**Type of entity:** IES  
**City organizing entity:** Madrid, Spain
- 26** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2011  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.
- 27** **Title of the work:** Ventanas a la Cognición  
**Name of the event:** Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Arganda del Rey, Spain  
**Date of event:** 11/2010  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA  
**Type of entity:** State agency  
J. Ignacio Serrano.

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** Expert Evaluator Panel of Horizon Europe Programme EIC-TRANSITION  
**Geographical area:** European Union  
**Primary (UNESCO code):** 331499 - Other (specify)  
**Affiliation entity:** European Commission  
**Start-End date:** 2024 - 2024
- 2** **Committee title:** Expert Monitoring Panel for first-year evaluation of project in HORIZON-EIC-2023-TRANSITION-01  
**Geographical area:** European Union  
**Primary (UNESCO code):** 331499 - Other (specify)  
**Secondary (UNESCO code):** 249001 - Neurophysiology  
**Tertiary (UNESCO code):** 320711 - Neuropathology  
**Affiliation entity:** Research Executive Agency (REA) - European Commission  
**Start-End date:** 05/05/2023 - 15/06/2023
- 3** **Committee title:** Expert Evaluator Panel of Horizon Europe Programme EIC-TRANSITION  
**Geographical area:** European Union  
**Primary (UNESCO code):** 331499 - Other (specify)  
**Affiliation entity:** European Commission  
**Start-End date:** 2023 - 2023
- 4** **Committee title:** Expert Evaluator Panel of projects - PED 2021 Programme  
**Geographical area:** European Union  
**Affiliation entity:** Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding  
**City affiliation entity:** Bucarest, Romania  
**Start-End date:** 2021 - 2022
- 5** **Committee title:** Expert Evaluator Panel of Horizon Europe Programme  
**Geographical area:** European Union  
**Affiliation entity:** European Commission  
**Start-End date:** 2021 - 2021
- 6** **Committee title:** Expert Evaluator Panel of projects - PICT 2019 Programme  
**Affiliation entity:** Argentinian National Agency for the Promotion of Research, Technological Development and Innovation (ANPCyT)  
**City affiliation entity:** Buenos Aires, Argentina  
**Start-End date:** 2020 - 2020
- 7** **Committee title:** 40ª Jornadas de Automática (CEA JA2019) Program Committee  
**Affiliation entity:** CEA **Type of entity:** Business  
**City affiliation entity:** Spain  
**Start-End date:** 2019 - 2019



- 8** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2019) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**City affiliation entity:** United States of America  
**Start-End date:** 2019 - 2019
- 9** **Committee title:** Computational Linguistics and Clinical Psychology (CLPsych 2019) Programme Committee  
**Affiliation entity:** North American Chapter of the Association for Computational Linguistics  
**City affiliation entity:** United States of America  
**Start-End date:** 2019 - 2019
- 10** **Committee title:** Confección y elaboración del nuevo programa de grado "Ingeniería Biomédica"  
**Geographical area:** National  
**Primary (UNESCO code):** 330412 - Control devices; 330417 - Real-time systems; 330700 - Electronic technology; 331400 - Medical technology  
**Secondary (UNESCO code):** 240300 - Biochemistry; 240500 - Biometrics; 240600 - Biophysics; 241000 - Human biology; 241100 - Human physiology; 249000 - Neurosciences  
**City:** Madrid, Comunidad de, Spain  
**Affiliation entity:** Universidad Francisco de Vitoria **Type of entity:** University  
**Start-End date:** 2019 - 2019
- 11** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2018) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2018 - 2018
- 12** **Committee title:** Computational Linguistics and Clinical Psychology (CLPsych 2018) Programme Committee  
**Affiliation entity:** North American Chapter of the Association for Computational Linguistics  
**Start-End date:** 2018 - 2018
- 13** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2017) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2017 - 2017
- 14** **Committee title:** Computational Linguistics and Clinical Psychology (CLPsych 2017) Programme Committee  
**Affiliation entity:** North American Chapter of the Association for Computational Linguistics  
**Start-End date:** 2017 - 2017
- 15** **Committee title:** IEEE Symposium Series on Computational Intelligence SSCI17 Program Committee  
**Affiliation entity:** IEEE  
**Start-End date:** 2017 - 2017
- 16** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2016) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2016 - 2016
- 17** **Committee title:** Computational Linguistics and Clinical Psychology (CLPsych 2016) Programme Committee  
**Affiliation entity:** North American Chapter of the Association for Computational Linguistics  
**Start-End date:** 2016 - 2016



- 18** **Committee title:** IEEE Symposium Series on Computational Intelligence SSCI16 Program Committee  
**Affiliation entity:** IEEE  
**Start-End date:** 2016 - 2016
- 19** **Committee title:** Computational Intelligence for Human-like Intelligence symposium – CIHLI 2015  
**Primary (UNESCO code):** 120304 - Artificial intelligence  
**Secondary (UNESCO code):** 610607 - Mental processes  
**Affiliation entity:** IEEE  
**Start-End date:** 2015 - 2015
- 20** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2014) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2014 - 2014
- 21** **Committee title:** Expert Evaluator Panel of Horizon2020 Programme  
**Affiliation entity:** European Commission  
**Start-End date:** 2014 - 2014
- 22** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2013) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2013 - 2013
- 23** **Committee title:** IEEE Symposium on Computational Intelligence for Human-Like Intelligence (CIHLI'13) Program Committee  
**Affiliation entity:** IEEE **Type of entity:** Associations and Groups  
**Start-End date:** 2013 - 2013
- 24** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2012) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2012 - 2012
- 25** **Committee title:** International Conference on Neural Rehabilitation (ICNR 2012) Program Committee  
**Affiliation entity:** CSIC, Hospital Nacional de Paraplégicos de Toledo. **Type of entity:** State agency  
**Start-End date:** 2012 - 2012
- 26** **Committee title:** Biologically Inspired Cognitive Architectures (BICA 2011) Program Committee  
**Affiliation entity:** BICA Society **Type of entity:** Associations and Groups  
**Start-End date:** 2011 - 2011
- 27** **Committee title:** Editorial board of the International Journal of Biomedicine and Healthcare  
**Affiliation entity:** EuroMISE Mentor Association  
**Start date:** 2015

## Organization of R&D activities

- 1 Title of the activity:** Simposio CEA Bioingeniería 2018  
**Type of activity:** Congreso científico internacional **Geographical area:** Non EU International  
**City of event:** Madrid, Madrid, Comunidad de, Spain  
**Convening entity:** COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC  
**City convening entity:** Madrid, Madrid, Comunidad de, Spain  
**Type of participation:** Organiser  
**Start-End date:** 02/07/2018 - 03/07/2018 **Duration:** 2 days
- 2 Title of the activity:** Simposio CEA Bioingeniería 2016  
**Type of activity:** Congreso científico internacional **Geographical area:** Non EU International  
**Convening entity:** COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC  
**City convening entity:** Madrid, Madrid, Comunidad de, Spain  
**Type of participation:** Organiser  
**Start-End date:** 23/06/2016 - 24/06/2016 **Duration:** 2 days

## National and international forums and committees

**Name of the forum:** Comité de Ética del Centro de Automática y Robótica, CSIC  
**Professional category:** Vicecoordinador, vocal  
**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA **Type of entity:** State agency  
**City organizing entity:** Arganda del Rey, Madrid, Comunidad de, Spain  
**Start date:** 01/09/2025

## Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Annual Meeting of the Cognitive Science Society CogSci2018  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society **Type of entity:** Associations and Groups  
**Start-End date:** 2018 - 2018
- 2 Name of the activity:** Brain-Computer Interfaces  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Taylor&Francis Group  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start-End date:** 2017 - 2017
- 3 Name of the activity:** Computational Intelligence and Neuroscience  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Hindawi **Type of entity:** Business  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start-End date:** 2017 - 2017



- 4** **Name of the activity:** Sensors  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** MDPI      **Type of entity:** Editorial  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start-End date:** 2017 - 2017
- 5** **Name of the activity:** 8th International IEEE EMBS Conference on Neural Engineering - NER17  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE Engineering in Medicine and Biology Society  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start-End date:** 2016 - 2017
- 6** **Name of the activity:** Sensors  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** MDPI      **Type of entity:** Business  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start-End date:** 2016 - 2016
- 7** **Name of the activity:** Annual Meeting of the Cognitive Science Society CogSci2016  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society      **Type of entity:** Associations and Groups  
**Start-End date:** 2016 - 2016
- 8** **Name of the activity:** Biomedical Signal Processing & Control  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Elsevier  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start date:** 2019
- 9** **Name of the activity:** Computational Intelligence and Neuroscience journal  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Hindawi      **Type of entity:** Business  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start date:** 2019
- 10** **Name of the activity:** Entropy  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** MDPI      **Type of entity:** Business  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2019
- 11** **Name of the activity:** Frontiers in Neurology  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Frontiers      **Type of entity:** Business



**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2019

**12 Name of the activity:** IEEE Transactions on Neural Systems and Rehabilitation Engineering

**Performed tasks:** Revisor de artículo

**Entity where activity was carried out:** IEEE

**Type of activity:** Review of articles in scientific or technological journals

**Start date:** 2019

**13 Name of the activity:** 2019 23rd International Conference on System Theory, Control and Computing (ICSTCC)

**Performed tasks:** Revisor de artículos

**Entity where activity was carried out:** IEEE Control Systems Society

**Start date:** 2019

**14 Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2019

**Performed tasks:** Revisor de artículos

**Entity where activity was carried out:** BICA Society

**Start date:** 2019

**15 Name of the activity:** EMBS Neural Engineering and Rehabilitation (NER 2019)

**Performed tasks:** Revisor de artículos

**Entity where activity was carried out:** EMBS      **Type of entity:** Associations and Groups

**Type of activity:** Review of articles in scientific or technological journals

**Geographical area:** Non EU International

**Start date:** 2019

**16 Name of the activity:** Frontiers in Human Neuroscience

**Performed tasks:** Revisor de artículos

**Entity where activity was carried out:** Frontiers      **Type of entity:** Business

**Type of activity:** Review of articles in scientific or technological journals

**Start date:** 2019

**17 Name of the activity:** IEEE Symposium Series on Computational Intelligence, SSCI 2019

**Performed tasks:** Revisor de artículos

**Entity where activity was carried out:** IEEE

**Start date:** 2019

**18 Name of the activity:** Computational Intelligence and Neuroscience journal

**Performed tasks:** Revisor de artículo

**Entity where activity was carried out:** Hindawi      **Type of entity:** Business

**Type of activity:** Review of articles in scientific or technological journals

**Geographical area:** Non EU International

**Start date:** 2018

**19 Name of the activity:** Expert Systems with Applications journal

**Performed tasks:** Revisor de artículo

**Entity where activity was carried out:** Elsevier

**Type of activity:** Review of articles in scientific or technological journals

**Geographical area:** Non EU International

**Start date:** 2018



- 20** **Name of the activity:** Journal of Biologically-Inspired Cognitive Architectures  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Elsevier  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start date:** 2018
- 21** **Name of the activity:** Journal of Neuroscience Methods  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Elsevier  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start date:** 2018
- 22** **Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2018  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** BICA Society  
**Start date:** 2018
- 23** **Name of the activity:** IEEE Symposium Series on Computational Intelligence, SSCI 2018  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE  
**Start date:** 2018
- 24** **Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2017  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** BICA Society  
**Start date:** 2017
- 25** **Name of the activity:** IEEE Symposium Series on Computational Intelligence, SSCI 2017  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE  
**Start date:** 2017
- 26** **Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2016  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** BICA Society  
**Start date:** 2016
- 27** **Name of the activity:** Journal of Biologically-Inspired Cognitive Architectures  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Elsevier  
**Type of activity:** Review of articles in scientific or technological journals  
**Geographical area:** Non EU International  
**Start date:** 2015
- 28** **Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2015  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** BICA Society  
**Start date:** 2015



- 29** **Name of the activity:** IEEE EMBS Conference on Neural Engineering 2015  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE  
**Start date:** 2015
- 30** **Name of the activity:** H2020-FETPROACT-2-2014  
**Performed tasks:** Evaluador experto  
**Entity where activity was carried out:** Comisión Europea  
**Type of entity:** Comisión Europea  
**Start date:** 04/2014
- 31** **Name of the activity:** European Journal of Biomedical Informatics  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** EuroMISE  
**Type of entity:** Associations and Groups  
**Start date:** 2014
- 32** **Name of the activity:** 36th Annual Meeting of the Cognitive Science Society, CogSci 2014  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society  
**Start date:** 2014
- 33** **Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2014  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** BICA Society  
**Start date:** 2014
- 34** **Name of the activity:** Biologically-Inspired Cognitive Architectures Conference, BICA 2014  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** BICA Society  
**Start date:** 2014
- 35** **Name of the activity:** IEEE EMBS Conference on Neural Engineering 2015  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE  
**Start date:** 2014
- 36** **Name of the activity:** IEEE Symposium Series on Computational Intelligence, SSCI 2014  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE  
**Start date:** 2014
- 37** **Name of the activity:** International Journal of English and Literature  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Academic Journals  
**Type of entity:** Business  
**Start date:** 2013
- 38** **Name of the activity:** Journal of Pattern Recognition Research  
**Performed tasks:** Revisor de artículo  
**Start date:** 2013



- 39** **Name of the activity:** Medical & Biological Engineering & Computing  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Springer  
**Start date:** 2013
- 40** **Name of the activity:** 35th Annual Meeting of the Cognitive Science Society, CogSci 2013  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society      **Type of entity:** Associations and Groups  
**Start date:** 2013
- 41** **Name of the activity:** International Conference on Cognitive Modeling ICCM 2013  
**Performed tasks:** Revisor de artículos  
**Start date:** 2013
- 42** **Name of the activity:** Artificial Intelligence Review  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Springer      **Type of entity:** Business  
**Start date:** 2012
- 43** **Name of the activity:** Journal of Ambient Intelligence and Humanized Computing  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Springer      **Type of entity:** Revista científica  
**Start date:** 2012
- 44** **Name of the activity:** Journal of Biologically Inspired Cognitive Architectures  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Elsevier      **Type of entity:** Revista científica  
**Start date:** 2012
- 45** **Name of the activity:** 34th Annual Meeting of the Cognitive Science Society, CogSci 2012  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society      **Type of entity:** Associations and Groups  
**Start date:** 2012
- 46** **Name of the activity:** International Conference on Neural Information Processing - ICONIP 2012  
**Performed tasks:** Revisor de artículos  
**Start date:** 2012
- 47** **Name of the activity:** "Inducción Gramatical Supervisada basada en Patrones Léxicos", escrita por Jesús Santamaría y dirigida por la Dra. Lourdes Araujo Serna  
**Performed tasks:** Revisor externo de calidad de tesis doctoral  
**Entity where activity was carried out:** Departamento de Lenguajes y Sistemas Informáticos, Escuela Técnica Superior de Ingeniería Informática, UNED      **Type of entity:** University  
**Start date:** 2012



- 48 Name of the activity:** The Spanish Journal of Psychology  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Cambridge University Press  
**Type of entity:** University  
**Start date:** 2011
- 49 Name of the activity:** 33th Annual Meeting of the Cognitive Science Society, CogSci 2011  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society  
**Type of entity:** Associations and Groups  
**Start date:** 2011
- 50 Name of the activity:** WSEAS Transactions on Information Science and Applications  
**Performed tasks:** Revisor de artículos  
**Start date:** 2011
- 51 Name of the activity:** Applied Bionics and Biomechanics Journal  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** Taylor & Francis group  
**Type of entity:** Editorial científica  
**Start date:** 2010
- 52 Name of the activity:** 32th Annual Meeting of the Cognitive Science Society, CogSci 2010  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society  
**Type of entity:** Associations and Groups  
**Start date:** 2010
- 53 Name of the activity:** Técnicas de Recuperación de Información para la Resolución de Problemas en la Web", escrita por Juan Martínez Romo y dirigida por la Dra. Lourdes Araujo Serna  
**Performed tasks:** Revisor externo de calidad de tesis doctoral  
**Entity where activity was carried out:** Departamento de Lenguajes y Sistemas Informáticos, Escuela Técnica Superior de Ingeniería Informática, UNED  
**Type of entity:** University  
**Start date:** 2010
- 54 Name of the activity:** IEEE International Conference on Mechatronics ICM 2009  
**Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** IEEE  
**Type of entity:** Editorial científica  
**Start date:** 2009
- 55 Name of the activity:** 31th Annual Meeting of the Cognitive Science Society, CogSci 2009  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society  
**Type of entity:** Associations and Groups  
**Start date:** 2009
- 56 Name of the activity:** 4th International Symposium on Intelligence Computation and Applications ISICA 2009  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** China University of Geosciences and Hubei Normal University



**Start date:** 2009

- 57** **Name of the activity:** International Conference on Cognitive Modeling ICCM 2009  
**Performed tasks:** Revisor de artículos  
**Start date:** 2009
- 58** **Performed tasks:** Revisor de artículo  
**Entity where activity was carried out:** IEEE Transactions on Evolutionary Computation  
**Type of entity:** Revista científica  
**Start date:** 2008
- 59** **Name of the activity:** 30th Annual Meeting of the Cognitive Science Society CogSci 2008  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** Cognitive Science Society  
**Type of entity:** Associations and Groups  
**Start date:** 2008
- 60** **Name of the activity:** IEEE EMBS Conference on Neural Engineering 2013  
**Performed tasks:** Revisor de artículos  
**Entity where activity was carried out:** IEEE  
**City of entity:** 2013,

## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Optenet, S.A. **Type of entity:** Business  
**Faculty, institute or centre:** Departamento de I+D  
**City of entity:** Madrid, Spain  
**Start-End date:** 05/2008 - 12/2009  
**Name of programme:** Aplicación de las técnicas de Inteligencia Artificial a la seguridad y a la caracterización de usuarios sospechosos en Internet  
**Goals of the stay:** Post-doctoral
- 2** **Entity:** Academia de Ciencias de la República Checa **Type of entity:** State agency y Universidad Carlos  
**Faculty, institute or centre:** EuroMISE Centre.  
**City of entity:** Praga, Czech Republic  
**Start date:** 01/08/2006 **Duration:** 91 days  
**Name of programme:** Análisis Inteligente de Datos Médicos  
**Goals of the stay:** Doctorate
- 3** **Entity:** Academia de Ciencias de la República Checa **Type of entity:** State agency y Universidad Carlos.  
**Faculty, institute or centre:** EuroMISE Centre  
**City of entity:** Praga, Czech Republic  
**Start date:** 22/05/2005 **Duration:** 35 days  
**Name of programme:** Aplicación de Métodos de Aprendizaje Automático y Algoritmos Genéticos sobre Datos Médicos.  
**Goals of the stay:** Doctorate



## Scientific societies and professional associations

- 1 **Name of the society:** Red Española de Ciencia Cognitiva RETECOG  
**Professional category:** Miembro fundador  
**Start-End date:** 2009 - 2012
- 2 **Name of the society:** International Neural Network Society  
**Start-End date:** 2007 - 2011
- 3 **Name of the society:** Task Force on Common Model of the Mind  
**Affiliation entity:** Association for the Advance of Artificial Intelligence (AAAI)      **Type of entity:** Associations and Groups  
**Start date:** 2018
- 4 **Name of the society:** European Medical Informatics, Statistics and Epidemiology (EUROMISE) Mentor Association  
**Start date:** 2014
- 5 **Name of the society:** Task Force on Towards Human-line Intelligence  
**Affiliation entity:** IEEE  
**Start date:** 2011
- 6 **Name of the society:** Cognitive Science Society  
**Start date:** 2008

## Editorial councils

- 1 **Name of the editorial council:** Applied Sciences  
**Affiliation entity:** MDPI      **Type of entity:** Business  
**City affiliation entity:** BaselBasel, Switzerland  
**Start date:** 02/2020      **Duration:** 1 year
- 2 **Name of the editorial council:** International Journal on Biomedicine and Healthcare  
**Affiliation entity:** EuroMISE Mentor Association      **Type of entity:** Associations and Groups  
**City affiliation entity:** PragaPraga, Czech Republic  
**Geographical area:** European Union  
**Start date:** 2015

## Co-operation networks

**Name of the network:** RoboCity2030 - Madrid Robotics Digital Innovation Hub  
**Identification of the network:** RoboCity2030-DIH-CM  
**City of co-operation network:** Madrid, Madrid, Comunidad de, Spain  
**Participating entity/entities:** GRVA-UNED; GRob-UPM; ROB-URJC; Robesafe-UAH; Robotics Lab - UC3M; CAR-CSIC      **Type of entity:** Public Research Body; Public Research Body; Public Research Body; Public Research Body



**Selection entity:** Comunidad de Madrid  
**Start date:** 01/01/2019

Research Body; Public Research Body; Public  
Research Body  
**Type of entity:** \_  
**Duration:** 4 years

## Prizes, mentions and distinctions

- Description:** EFORT 2023 Best National Paper Award (3rd place) for the paper entitled "Is There A Relationship Between The Functional Level Of Juvenile And Adolescent Patients With Down Syndrome And Hip Dysplasia?"  
**Awarding entity:** European Federation of National Associations of Orthopaedics and Traumatology (EFORT)  
**Conferral date:** 2023
- Description:** Best paper award of IEEE BIBE 2020  
**Awarding entity:** IEEE Computer Society  
**Conferral date:** 2020
- Description:** Premio Fundación CASER Dependencia y Sociedad, Categoría I+D, al proyecto CP-Walker  
**Awarding entity:** Fundación Caser **Type of entity:** Associations and Groups  
**City awarding entity:** Madrid, Madrid, Comunidad de, Spain  
**Conferral date:** 2017
- Description:** 2nd price Innova eVIA 2016 to the spin-off Werium Assisitive Solutions S.L.  
**Awarding entity:** AMETIC **Type of entity:** Associations and Groups  
**Conferral date:** 2016
- Description:** Accessit to Best Technology-based Idea of 2015 to the spin-off Werium Assistive Solutions S.L.  
**Awarding entity:** Madrid+d Foundation of Knowledge  
**Conferral date:** 2015
- Description:** Award of the first Caixa Impulse program to the spin-off Werium Assistive Solutions S.L.  
**Awarding entity:** Obra Social Fundación la Caixa **Type of entity:** Foundation  
**Conferral date:** 2015
- Description:** 2º premio en el Annual BCI Research Award 2014  
**Awarding entity:** Guger Technologies (g.tec)  
**Conferral date:** 2014
- Description:** Premio al mejor póster en el II Congreso Internacional de Dolor Musculoesquelético y Movimiento por "Actividad EEG durante dos tipos de estimulación sensitiva. A propósito de un caso"  
**Awarding entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**City awarding entity:** Madrid, Spain  
**Conferral date:** 2014
- Description:** Premio "Mejores Ideas de 2013" en la Categoría de Investigación y farmacología  
**Awarding entity:** Diario Médico **Type of entity:** Business  
**Conferral date:** 2013



- 10** **Description:** Premio a la investigación "Trofeos de la Seguridad TIC 2009"  
**Awarding entity:** Revista RED SEGURIDAD **Type of entity:** Business  
**Conferral date:** 2009