



CURRÍCULUM VÍTAE NORMALIZADO



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, which was supervised by María Dolores del Castillo Sobrino, a senior scientist at the CSIC, focused on developing a psychologically plausible computational model of the reading process in the human mind. 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 61 papers in journals indexed in the JCR, 8 papers in journals indexed in other databases, 7 book chapters, and more than 75 conference papers, with a h-index of 24, an i10-index of 49, and around 2130 citations according to Google Scholar, and h-index of 17 and 1166 citations according to Scopus. He has supervised four doctoral theses and several 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).



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.

61 papers in journals indexed in JCR (19 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: 1166
h-index: 17 (Source: Scopus)

Citations from 2002: 2014
Citations from 2020: 1129
h-index: 24
h10-index: 48
(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/jignaciroserranohome/>**

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

	Employing entity	Professional category	Start date
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	BecarioI3P 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	BecarioI3P 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: Community of Madrid, 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, Community of Madrid, 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

5



Employing entity: CENTRO DE AUTOMATICA Y ROBOTICA (CSIC)

City employing entity: Arganda del Rey, Community of Madrid, 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, Community of Madrid, 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, Community of Madrid, 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, Community of Madrid, 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, Community of Madrid, Spain

Professional category: Becario3P 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, Community of Madrid, 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, Community of Madrid, 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, Community of Madrid, Spain
Professional category: Becario I3P 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, Community of Madrid, 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, Community of Madrid, 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, Community of Madrid, 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, Community of Madrid, 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 **Type of entity:** University de Madrid

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 **Type of entity:** University de Madrid

Date of degree: 22/10/2007

3 Doctorate programme: Suficiencia Investigadora - Diploma de Estudios Avanzados

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

Date of degree: 01/10/2007

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

1 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

**2 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

3 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

4 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

5 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:** Imserso

End date: 2011

6 Training title: Envejecimiento. La investigación en España y Europa

Awarding entity: Instituto de Mayores y Servicios Sociales **Type of entity:** imserso

End date: 2011

7 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: 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

2 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

3 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

4 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

5 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



6 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

7 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

Entity: Universidad Rey Juan Carlos Facultad / Escuela: **Type of entity:** University
Facultad de Ciencias de la Salud

City of entity: Alcorcón, Community of Madrid, Spain

Student: Esther Monge Pereira

Date of reading: 26/06/2017

8 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

9 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

10 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

11 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 Sasiabarrena

Date of reading: 02/2016

12 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, Community of Madrid, Spain

Student: Santiago Olalde Fiandor

Date of reading: 02/09/2015

13 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: E.T.S.I. Telecomunicaciones **Type of entity:** University

City of entity: Zaragoza, Aragon, Spain

Student: Jaime Ibáñez Pereda

Date of reading: 30/10/2014

14 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, Community of Madrid, Spain

Student: Jesús Oliva Gonzalo

Date of reading: 27/09/2013

15 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, Community of Madrid, 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 porImagen", XXIII conmemoración de los Cursos de Verano de la URJC

City organizing entity: Community of Madrid, 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 Hemiplejia 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 neurorrehabilitación. Máster Universitario en Ingeniería Biomédica.

Organising entity: Universidad San Pablo CEU

Type of entity: University

Hours of teaching: 3

Teaching date: 08/05/2018

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

Type of entity: Associations and Groups

Organising entity: European Society for Movement Analisis in Adults and Children

Hours of teaching: 2

Teaching language: English

Teaching date: 27/09/2016

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)**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)**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 Research Topics of the Industrial Automation Institute -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



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, Community of Madrid, Spain

Affiliation entity: Centro Superior de Estudios

Universitarios La Salle

Start date: 10/2016

Type of entity: University Centres and Structures and Associated Bodies

Scientific or technological activities

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

1 **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

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

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 €

Dedication regime: Part time

2 **Name of the project:** PowerizeD. 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

Nº people/year: 101.096.387

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
Start-End date: 2023 - 2025
Total amount: 18.333.206,73 €
Dedication regime: Part time

3 **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

4 **Name of the project:** COREEG. Emocional and Cognitive correlates between grpah-based funtional connectivity and microstate dynamics, and spontaneous EEG activity.

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

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

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

Nº of researchers: 1

Funding entity or bodies:

Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

Type of participation: Principal investigator

Name of the programme: PIE Incorporación

Code according to the funding entity: PIE202250I065

Start-End date: 2022 - 2024

Dedication regime: Part time

5 **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

**6** **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, Community of Madrid, 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**7** **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:** Researcher**Entity where project took place:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency**City of entity:** Madrid, Community of Madrid, 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**Dedication regime:** Part time**8** **Name of the project:** XoSoft. SOFT MODULAR BIOMIMETIC EXOSKELETON TO ASSIST PEOPLE WITH MOBILITY IMPAIRMENTS**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, Community of Madrid, Spain**Type of participation:** Team member**Name of the programme:** HORIZON2020**Code according to the funding entity:** H2020 ICT-24-2015**Start-End date:** 01/01/2016 - 31/12/2018

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

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

Name principal investigator (PI, Co-PI....): Dr. Eduardo Rocón

Nº of researchers: 8

Funding entity or bodies:

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)

10 Name of the project: NEUROTREMOR

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

Nº of researchers: 10

Funding entity or bodies:

SEVENTH FRAMEWORK PROGRAMME-ICT.

Start date: 2013

Duration: 2 years

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

11 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

12 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; ...

13 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



14 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^a Dolores del Castillo Sobrino

Nº of researchers: 2

Start date: 2007

Duration: 2 years

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

15 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^a 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: ELECFRA II: SISTEMA PARA LA DETECCIÓN Y ELIMINACIÓN DEL FRAUDE ELECTRÓNICO VÍA CORREO ELECTRÓNICO E INTERNET

Name principal investigator (PI, Co-PI....): Dra. M^a 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.

17 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^a 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

18 Name of the project: ELECFRA 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^a 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.

19 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

- 20 Name of the project:** ICONOSOL: SISTEMA PARA IDENTIFICACIÓN, CLASIFICACIÓN Y FILTRADO AUTOMÁTICO DE CORREO NO SOLICITADO

Name principal investigator (PI, Co-PI....): Dra. M^a 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.

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

Name principal investigator (PI, Co-PI....): Dra. M^a 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

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

Name principal investigator (PI, Co-PI....): Dra. M^a 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 €

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

Name principal investigator (PI, Co-PI....): Dra. M^a 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:** INTEGRACIÓN DE MEDIDAS BIOMÉTRICAS Y COGNITIVAS 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

Start date: 01/01/2013

Duration: 3 years

- 2 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

- 3 Name of the project:** LIS: LÍNEA ÍNTEGRAMENTE SEGURA. ANALIZADOR DE TRÁFICO PARA OPERADORES

Nº of researchers: 2

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

Funding entity or bodies:

OPTENET

S.A.

Start date: 2007

Duration: 2 years

- 4 Name of the project:** TELEMACO: SISTEMA DE DETECCIÓN Y ALERTA CONTRA EL ACOSO TELEMÁTICO A MENORES

Nº of researchers: 2

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

Funding entity or bodies:

OPTENET

S.A.

Start date: 2007

Duration: 2 years

- 5 Name of the project:** HESPERIA: HOMELAND SECURITY TECNOLOGÍAS PARA LA SEGURIDAD INTEGRAL EN ESPACIOS PÚBLICOS E INFRAESTRUCTURAS

Nº of researchers: 3

Participating entity/entities: Instituto de Automática Industrial ; TECHONOSAFE S.L.

Funding entity or bodies:

TECHONOSAFE S.L.

Start date: 2006

Duration: 3 years



6 Name of the project: ELECFRA: SISTEMA PARA LA DETECCIÓN Y ELIMINACIÓN DEL FRAUDE ELECTRÓNICO VÍA CORREO ELECTRÓNICO E INTERNET

Degree of contribution: Industrial

Nº of researchers: 2

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

Funding entity or bodies:

OPTENET

S.A.

Start date: 2005

Duration: 2 years

7 Name of the project: ICONOSOL: SISTEMA PARA IDENTIFICACIÓN, CLASIFICACIÓN Y FILTRADO AUTOMÁTICO DE CORREO NO SOLICITADO

Degree of contribution: Industrial

Nº of researchers: 2

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

Funding entity or bodies:

RED EDUCATIVA

S.A.

Start date: 2004

Duration: 2 years

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

Degree of contribution: Industrial

Name principal investigator (PI, Co-PI....): M^a Dolores del Castillo Sobrino

Nº of researchers: 2

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

Funding entity or bodies:

RED EDUCATIVA

S.A.

Start date: 2003

Duration: 1 year

9 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

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

Degree of contribution: Industrial

Name principal investigator (PI, Co-PI....): M^a Dolores del Castillo Sobrino

Nº of researchers: 2

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

Funding entity or bodies:

RED EDUCATIVA

S.A.

**Start date:** 2001**Duration:** 1 year

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: WO2007EST0026 20070205

Country of inscription: Spain, Community of Madrid

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: Community of Madrid, 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, Community of Madrid, Spain

Start date: 11/2015

Duration: 3 years

Scientific and technological activities

Scientific production

1 H index: 24

Date of application: 18/09/2025

Source of H-Index: GOOGLE SCHOLAR

2 H index: 17

Date of application: 18/09/2025

Source of H-Index: SCOPUS

Publications, scientific and technical documents

1 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

Corresponding author: Yes

Category: MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 135

Total no. authors: 11

Impact source: WOS (JCR)

Impact index in year of publication: 3.9

Position of publication: 25

Relevant publication: Yes

2 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

Format: Journal

Position of signature: 6

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

Corresponding author: No

Category: PSYCHOLOGY, DEVELOPMENTAL

Total no. authors: 9

Impact source: WOS (JCR)



Impact index in year of publication: 2.8

Position of publication: 32

Relevant publication: Yes

Journal in the top 25%: No

No. of journals in the cat.: 94

- 3** Rocío Llamas-Ramos; Juan Luis Sánchez-González; Jorge Juan Alvarado-Omenat; Ismael Sanz-Estebar; 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

Total no. authors: 6

Impact source: WOS (JCR)

Impact index in year of publication: 2.9

Position of publication: 65

Format: Journal

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

Corresponding author: No

Category: MEDICINE, GENERAL & INTERNAL

Journal in the top 25%: Yes

No. of journals in the cat.: 332

Relevant publication: Yes

- 4** Luis Perales-López; Ismael Sanz-Estebar; 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 peripheric 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

Total no. authors: 7

Impact source: WOS (JCR)

Impact index in year of publication: 5.2

Position of publication: 47

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%: Yes

No. of journals in the cat.: 314

Relevant publication: Yes

- 5** 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

Position of signature: 4

Total no. authors: 8

Impact source: WOS (JCR)

Impact index in year of publication: 5.2

Position of publication: 47

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%: Yes

No. of journals in the cat.: 314

Relevant publication: Yes

- 6** 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

Format: Journal

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



Total no. authors: 4

Impact source: WOS (JCR)

Impact index in year of publication: 7.5

Position of publication: 36

Relevant publication: Yes

Corresponding author: Yes

Category: Science Edition - ENGINEERING,
ELECTRICAL & ELECTRONIC

Journal in the top 25%: Yes

No. of journals in the cat.: 366

- 7** María Galán-Olleros; Jaime Sánchez Del Saz; Carlos Miranda-Gorozarri; Jose Ignacio Serrano; Rosa M Egea-Gámez; Daniel Garrigüez-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

- 8** 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

- 9** 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

- 10** 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 Gastrocsoleus 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

Format: Journal



Position of signature: 4

Total no. authors: 8

Relevant publication: Yes

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

Corresponding author: No

- 11** 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

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

Relevant publication: Yes

- 12** 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

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

Relevant publication: Yes

- 13** 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

Impact source: WOS (JCR)

Impact index in year of publication: 8,5

Position of publication: 23

Format: Journal

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

Corresponding author: Yes

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 275

Relevant publication: Yes

- 14** 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



- 15** 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
Category: Rehabilitation
Journal in the top 25%: Yes
No. of journals in the cat.: 68
Relevant publication: Yes
- 16** 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
- 17** 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]. *Neurologia*. 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
- 18** 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
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
Relevant publication: Yes



- 19** 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
- 20** 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
- 21** 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
Relevant publication: Yes

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 22** J. Ignacio Serrano; Daniel Muñoz-García; Raúl Ferrer-Peña; Victor 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



- 23** 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
- 24** 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
- 25** 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
Impact source: WOS (JCR)
Impact index in year of publication: 4,139
Position of publication: 74
- Relevant publication:** Yes
- 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.: 267
- 26** 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
- Total no. authors:** 6
Impact source: WOS (JCR)
- Impact index in year of publication:** 4,122
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - MULTIDISCIPLINARY SCIENCES
Journal in the top 25%: Yes



Position of publication: 12

No. of journals in the cat.: 64

Relevant publication: Yes

- 27** 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

Format: Book

Position of signature: 3

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

Total no. authors: 16

Relevant publication: Yes

- 28** F.J. Sánchez-Cuesta; A. Arroyo-Ferrer; Y. González-Zamorano; A. Vourvopoulos; S.B.I. Badia; P. Figueredo; 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

Format: Journal

Position of signature: 7

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

Total no. authors: 8

- 29** 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

Format: Journal

Position of signature: 8

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

Total no. authors: 20

- 30** 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

Format: Journal

Position of signature: 6

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

Total no. authors: 8

Corresponding author: No

Impact source: WOS (JCR)

Category: Science Edition - CLINICAL NEUROLOGY

Impact index in year of publication: 2,651

Journal in the top 25%: No

Position of publication: 99

No. of journals in the cat.: 199

- 31** 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

Format: Journal

Position of signature: 1

**Total no. authors:** 10**Impact source:** WOS (JCR)**Impact index in year of publication:** 3,648**Position of publication:** 92**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

- 32** 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**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

- 33** 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**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

- 34** 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**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**Total no. authors:** 6**Impact source:** WOS (JCR)**Impact index in year of publication:** 1,313**Position of publication:** 46

- 35** 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**Format:** Journal

**Total no. authors:** 8**Impact source:** WOS (JCR)**Impact index in year of publication:** 8,222**Position of publication:** 12**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

36 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**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:** 8,222**Position of publication:** 12**Category:** Science Edition - CLINICAL NEUROLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 199

37 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**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 8**Impact source:** WOS (JCR)**Impact index in year of publication:** 2,038**Position of publication:** 137**Category:** Science Edition - CLINICAL NEUROLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 199

38 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**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 4**Impact source:** WOS (JCR)**Impact index in year of publication:** 3,479**Position of publication:** 24**Corresponding author:** Yes**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 132

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

**Total no. authors:** 11**Impact source:** WOS (JCR)**Impact index in year of publication:** 2,638**Position of publication:** 36**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Journal in the top 25%:** No**No. of journals in the cat.:** 132

40 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**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:** 1,938**Position of publication:** 136**Category:** Science Edition - CLINICAL NEUROLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 197

41 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**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:** 0,601**Position of publication:** 191**Category:** Science Edition - CLINICAL NEUROLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 197

42 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**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:** 3,768**Position of publication:** 8**Corresponding author:** Yes**Category:** Science Edition - OPERATIONS RESEARCH & MANAGEMENT SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 83

43 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 ESTIMATION 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**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 11**Impact source:** WOS (JCR)**Category:** Science Edition - NEUROSCIENCES



Impact index in year of publication: 3,877
Position of publication: 77

Journal in the top 25%: No
No. of journals in the cat.: 261

44 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

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

Total no. authors: 4
Impact source: WOS (JCR)

Impact index in year of publication: 0,787
Position of publication: 112

45 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

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

Total no. authors: 6
Impact source: WOS (JCR)

Impact index in year of publication: 1,850
Position of publication: 24

46 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

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No

Total no. authors: 12

47 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

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: 3,516
Position of publication: 3

Category: Rehabilitation
Journal in the top 25%: Yes
No. of journals in the cat.: 65



- 48** 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 **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
- 49** 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 **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- Total no. authors:** 7
- 50** 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 **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:** 7
- Impact source:** WOS (JCR) **Category:** Science Edition - SPORT SCIENCES
Impact index in year of publication: 2.286 **Journal in the top 25%:** Yes
Position of publication: 20 **No. of journals in the cat.:** 82
- 51** 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 **Corresponding author:** Yes
Total no. authors: 4 **Category:** COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Impact source: WOS (JCR) **Journal in the top 25%:** No
Impact index in year of publication: 0,838 **No. of journals in the cat.:** 130
Position of publication: 99
- 52** 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
- 53** 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
Position of signature: 2
Total no. authors: 5
Impact source: WOS (JCR)
Impact index in year of publication: 1.500
Position of publication: 11

Format: Journal
Category: Science Edition - MEDICAL INFORMATICS
Journal in the top 25%: No
No. of journals in the cat.: 24

- 54** 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
Position of signature: 2
Impact source: WOS (JCR)
Impact index in year of publication: 1.356
Position of publication: 57

Format: Journal
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: No
No. of journals in the cat.: 121

- 55** 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
Position of signature: 1
Total no. authors: 3
Impact source: WOS (JCR)
Impact index in year of publication: 0.810
Position of publication: 10

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - HISTORY & PHILOSOPHY OF SCIENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 56

- 56** 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
Position of signature: 2
Total no. authors: 7
Impact source: WOS (JCR)
Impact index in year of publication: 3.415
Position of publication: 10

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, BIOMEDICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 76

- 57** 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
Position of signature: 1
Impact source: WOS (JCR)
Impact index in year of publication: 0,838

Format: Journal
Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: No

**Position of publication:** 99**No. of journals in the cat.:** 130

58 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**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Impact source:** WOS (JCR)**Journal in the top 25%:** No**Impact index in year of publication:** 0.463**No. of journals in the cat.:** 121**Position of publication:** 106

59 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**Category:** Science Edition - ENGINEERING, BIOMEDICAL**Impact source:** WOS (JCR)**Journal in the top 25%:** No**Impact index in year of publication:** 1.532**No. of journals in the cat.:** 76**Position of publication:** 40

60 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**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Impact source:** WOS (JCR)**Journal in the top 25%:** Yes**Impact index in year of publication:** 1.927**No. of journals in the cat.:** 115**Position of publication:** 28

61 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**Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE**Impact source:** WOS (JCR)**Journal in the top 25%:** Yes**Impact index in year of publication:** 2.548**No. of journals in the cat.:** 115**Position of publication:** 17

62 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
Position of signature: 3

Total no. authors: 4

Impact source: WOS (JCR)

Impact index in year of publication: 0.483

Position of publication: 69

Format: Journal

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

Category: Science Edition - ENGINEERING, BIOMEDICAL

Journal in the top 25%: No

No. of journals in the cat.: 79

63 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)

Impact index in year of publication: 1.565

Position of publication: 41

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: No

No. of journals in the cat.: 115

64 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

65 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

Format: Journal

Position of signature: 3

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 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

Format: Journal

Position of signature: 2

Impact source: WOS (JCR)

Impact index in year of publication: 1.422

Position of publication: 41

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Journal in the top 25%: No

No. of journals in the cat.: 135



- 67** 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 **Format:** Journal
- Position of signature:** 1
- Impact source:** WOS (JCR)
- Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
- Impact index in year of publication:** 1.440 **Journal in the top 25%:** No
- Position of publication:** 47 **No. of journals in the cat.:** 103
- 68** 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 **Format:** Journal
- Position of signature:** 1
- Impact source:** WOS (JCR)
- Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
- Impact index in year of publication:** 1.440 **Journal in the top 25%:** No
- Position of publication:** 47 **No. of journals in the cat.:** 103
- 69** 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 **Format:** Journal
- Position of signature:** 2
- Impact source:** WOS (JCR)
- Category:** Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
- Impact index in year of publication:** 1.559 **Journal in the top 25%:** No
- Position of publication:** 40 **No. of journals in the cat.:** 94
- 70** 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 **Format:** Journal
- Position of signature:** 1
- Impact source:** WOS (JCR)
- Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS
- Impact index in year of publication:** 0.770 **Journal in the top 25%:** No
- Position of publication:** 51 **No. of journals in the cat.:** 92
- 71** 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 **Format:** Journal
- Position of signature:** 1
- 72** 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 **Format:** Journal
- Position of signature:** 2



- 73** 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 **Format:** Journal
- Position of signature:** 1
- Impact source:** WOS (JCR)
- Category:** Science Edition - COMPUTER SCIENCE, THEORY & METHODS
- Impact index in year of publication:** 0.402 **Journal in the top 25%:** No
- Position of publication:** 62 **No. of journals in the cat.:** 71
- 74** 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 **Format:** Journal
- Position of signature:** 2
- 75** Esther Monge Pereira; José Ignacio Serrano Moreno; Jaimeº 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 **Format:** Book
- Position of signature:** 2 **Degree of contribution:** Author or co-author of chapter in book
- Total no. authors:** 4 **Corresponding author:** No
- 76** 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 **Format:** Book
- Position of signature:** 1 **Degree of contribution:** Author or co-author of chapter in book
- Total no. authors:** 7 **Corresponding author:** Yes
- 77** 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 **Format:** Book
- Position of signature:** 2 **Degree of contribution:** Author or co-author of chapter in book
- Total no. authors:** 7
- 78** 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 **Format:** Book
- Position of signature:** 1 **Degree of contribution:** Author or co-author of chapter in book
- Total no. authors:** 4



- 79** 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 **Format:** Book
Position of signature: 3
- 80** 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 **Format:** Book
Position of signature: 3
- 81** 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 **Format:** Book
Position of signature: 1
- 82** José Ignacio Serrano. FILTRADO DE IMÁGENES PARA ADULTOS EN INTERNET. Optenet S.A., 2002.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
Position of signature: 1
- 83** 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 **Format:** Scientific and technical document or report
Position of signature: 1
- 84** 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> ISSN 16800737, ISBN 9783030316341
DOI: 10.1007/978-3-030-31635-8_201
Type of production: Conference Proceedings **Format:** Book
Position of signature: 1
Total no. authors: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
 Corresponding author: Yes
- 85** 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> ISBN 9781728195742
DOI: 10.1109/BIBE50027.2020.00101
Type of production: Conference Proceedings **Format:** Book
Position of signature: 2
Total no. authors: 6 **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; 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 **Format:** Book



Position of signature: 2

Total no. authors: 6

87 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

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

Corresponding author: 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

88 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

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 Diego Herraez-Aguilar; Ana Maitín; Ramiro Perezan; 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

Total no. authors: 10

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

90 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

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



- 91** 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 Universitat Politècnica de València, 2019. ISBN 978-84-9048-793-8
DOI: <http://dx.doi.org/10.4995/CEABiolng.2019.10030>
- 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: 3 **Corresponding author:** No
- 92** 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 **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4 **Corresponding author:** Yes
- 93** 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 **Format:** Book
Position of signature: 7 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
- 94** 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 **Format:** Book
Position of signature: 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 7
- 95** Cristina Bayón; Óscar Ramírez; María Dolores del Castillo; José Ignacio Serrano; Rafael Raya; Juan Manuel Belda-Lois; Rakel 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 **Format:** Book
Position of signature: 4 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 12
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Type of production: Actas de congreso **Format:** Book
Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4



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Total no. authors: 7

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Position of signature: 2

Total no. authors: 3

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Type of production: Actas de Congreso

Format: Book

Position of signature: 6

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

Total no. authors: 7

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Position of signature: 2

Total no. authors: 6

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Format: Book

Position of signature: 4

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

Total no. authors: 12

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Total no. authors: 12

Corresponding author: No



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Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 11
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Corresponding author: Yes
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Type of production: Actas de congreso **Format:** Book
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Type of production: Actas de congreso **Format:** Book
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Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
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Total no. authors: 9

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Type of production: Actas de Congreso

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Type of production: Actas de congreso

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Total no. authors: 8

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Type of production: Actas de Congreso

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Position of signature: 2

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Position of signature: 1

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Format: Book

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Format: Book

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Type of production: Actas de Congreso
Position of signature: 2

Format: Book

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Format: Book

**Position of signature:** 1

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Type of production: Actas de Congreso**Format:** Book**Position of signature:** 3

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Position of signature: 1

Format: Book

- 146** 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
Position of signature: 2

Format: Book



147 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

148 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

149 María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. COLLABORATIVE MULTISTRATEGY TEXT CATEGORIZATION. Learning'02. Madrid, Community of Madrid(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 ELECTROENCEFALOGRAFIA 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: Doktorándsky 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: 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>>.

2 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.

3 Title of the work: Sistemas Inteligentes Artificiales

Type of event: Conferences given

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 04/2019

Organising entity: I.E.S. Antonio Fraguas "Forges"

City organizing entity: Madrid, Community of Madrid, Spain

J. Ignacio Serrano.

4 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.

5 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 Geriatría y Gerontología **Type of entity:** Associations and Groups

City organizing entity: Madrid, Community of Madrid, Spain

J. Ignacio Serrano.

**6 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 Geriatría **Type of entity:** Associations and Groups y Gerontología**City organizing entity:** Madrid, Community of Madrid, Spain

J. Ignacio Serrano.

7 Title of the work: Sistemas Inteligentes Artificiales**Type of event:** Conferences given**Corresponding author:** Yes**City of event:** Madrid, Spain**Date of event:** 04/2016**Organising entity:** I.E.S. Joaquín Turina**Type of entity:** IES**City organizing entity:** Madrid, Spain

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:** 11/2015**Organising entity:** CENTRO DE AUTOMATICA Y ROBOTICA**Type of entity:** State agency

J. Ignacio Serrano.

9 Title of the work: Demostración de interfaces cerebro computador para control de exoesqueleto**Type of event:** Media interviews**Geographical area:** National**City of event:** Madrid,**Date of event:** 07/2015**Organising entity:** ENTE PÚBLICO RADIO TELEVISIÓN ESPAÑOLA, S.A.**City organizing entity:** Madrid, Spain

"Órbita Laika".

10 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.

**11 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.

12 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 **Type of entity:** State agency

ROBOTICA

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:** 11/2012**Organising entity:** CENTRO DE AUTOMATICA Y **Type of entity:** State agency

ROBOTICA

J. Ignacio Serrano.

14 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**15 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 **Type of entity:** State agency

ROBOTICA

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: 11/2010

Organising entity: CENTRO DE AUTOMATICA Y
ROBOTICA

J. Ignacio Serrano.

Type of entity: State agency

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: Argentian 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: 40^a 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: Community of Madrid, 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 (CLPysch 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

Type of entity: State agency

Parapléjicos de Toledo.

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, Community of Madrid, Spain

Convening entity: COMITE ESPAÑOL DE AUTOMATICA DE LA IFAC

City convening entity: Madrid, Community of Madrid, 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, Community of Madrid, Spain

Type of participation: Organiser

Start-End date: 23/06/2016 - 24/06/2016

Duration: 2 days

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:

Type of entity: University

Departamento de Lenguajes y Sistemas Informáticos,
Escuela Técnica Superior de Ingeniería Informática,
UNED

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
Start date: 2008

Type of entity: Revista científica

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
Start date: 2008

Type of entity: Associations and Groups

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

Associaton

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, Community of Madrid, Spain

Participating entity/entities: GRVA-UNED; **Type of entity:** Public Research Body; Public

GRob-UPM; ROB-URJC; Robesafe-UAH; Robotics **Research Body;** Public Research Body; Public

Lab - UC3M; CAR-CSIC



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

- 1** **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
- 2** **Description:** Best paper award of IEEE BIBE 2020
Awarding entity: IEEE Computer Society
Conferral date: 2020
- 3** **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, Community of Madrid, Spain
Conferral date: 2017
- 4** **Description:** 2nd price Innova eVIA 2016 to the spin-off Werium Assistive Solutions S.L.
Awarding entity: AMETIC **Type of entity:** Associations and Groups
Conferral date: 2016
- 5** **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
- 6** **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
- 7** **Description:** 2º premio en el Annual BCI Research Award 2014
Awarding entity: Guger Technologies (g.tec)
Conferral date: 2014
- 8** **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
- 9** **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