



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 nació en Madrid, España (1977) . Se graduó en Ingeniería Informática en la Universidad Complutense de Madrid (UCM) en 2002. Obtuvo los títulos de máster y doctor en Inteligencia Artificial e Ingeniería del Software en 2004 y 2007, respectivamente, en la UCM. Su tesis doctoral, dirigida por la científico titular del CSIC María Dolores del Castillo Sobrino, se centró en el desarrollo de un modelo computacional, psicológicamente plausible, del proceso de lectura en la mente humana. El Dr. Serrano continuó su trabajo en el análisis inteligente de la información, sobre todo lingüística, y la inteligencia artificial desde un punto de vista de la simulación de los procesos cognitivos humanos, mediante contratos privados en el CSIC (2002-actualidad). Actualmente, el Dr. Serrano trabaja en el Centro de Automática y Robótica del CSIC, realizando trabajos relacionados con la Neuroingeniería (Brain-computer interfaces) aplicada a los desórdenes motores, recibiendo el 2ª premio del Annual BCI Reseach Award en 2014 otorgado por la compañía Guger Technologies. Sigue aplicando el modelado computacional cognitivo a trastornos mentales y el análisis inteligente de datos a la informática médica. Ha dirigido tres tesis doctorales y ha servido como miembro de comités científicos de diversos congresos y revistas internacionales. Ha servido también como evaluador experto para la Comisión Europea en Horizonte 2020.

José Ignacio Serrano Moreno was born in Madrid, Spain (1977). He graduated in Computer Engineering from the Complutense University of Madrid (UCM) in 2002. He obtained master's and doctor's degrees in Artificial Intelligence and Software Engineering in 2004 and 2007, respectively, at the UCM. Her doctoral thesis, directed by the CSIC scientist María Dolores del Castillo Sobrino, focused on the development of a psychologically plausible computational model of the reading process in the human mind. Dr. Serrano continued his work in the intelligent analysis of information, especially linguistics, and artificial intelligence from the point of view of the simulation of human cognitive processes, through private contracts at the CSIC (2002-present). Currently, Dr. Serrano works at the Center for Automation and Robotics of the CSIC, carrying out work related to Neuroengineering (Brain-computer interfaces) applied to motor disorders, receiving the 2nd prize of the Annual BCI Reseach Award in 2014 granted by the Guger Technologies company. He continues to apply cognitive computational modeling to mental disorders and intelligent data analysis to medical informatics. He has supervised four doctoral theses and has served as a member of scientific committees of various international conferences and magazines. He has also served as an expert evaluator for the European Commission on Horizon 2020 and the Argentinian National Agency for the Promotion of Research..



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.

48 papers in journals indexed in (15 in Q1)
7 papers in journals indexed in other databases
8 book chapters
66 papers in proceedings of national and international conferences

Citations from 2004: 529
h-index: 12 (Source: Scopus)

Citations from 2002: 1068
Citations from 2016: 656
h-index: 15
h10-index: 30
(Source: Google Scholar)

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



José Ignacio Serrano Moreno

Surname(s): **Serrano Moreno**
Name: **José Ignacio**
ORCID: **0000-0002-9333-1305**
Date of birth: **08/05/1977**
Gender: **Male**
Nationality: **Spain**
Country of birth: **Spain**
Aut. region/reg. of birth: **Community of Madrid**
Contact province: **Madrid**
City of birth: **Madrid**
Contact address: **Ctra. Campo Real km 0.200**
Rest of contact address: **La Poveda - Centro de Automática y Robótica, CSIC**
Postcode: **28500**
Contact country: **Spain**
Contact aut. region/reg.: **Community of Madrid**
Contact city: **Arganda del Rey**
Land line phone: **(34) 91 871 19 00**
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Personal web page: **<https://sites.google.com/site/jignacioserranohome/>**

Current professional situation

Employing entity: CENTRO DE AUTOMATICA Y ROBOTICA (CSIC) **Type of entity:** Public Research Body

Professional category: Doctor Contratado - FC1

Start date: 01/07/2019

Type of contract: Temporary employment contract **Dedication regime:** Full time

Primary (UNESCO code): 120304 - Artificial intelligence; 249001 - Neurophysiology; 320000 - Medical Science; 330000 - Technological Science.

Secondary (UNESCO code): 331499 - Other (specify); 610606 - Memory processes; 610607 - Mental processes; 610610 - Physiological psychology

Tertiary (UNESCO code): 570101 - Abstracting; 570102 - Automated documentation; 570104 - Computational linguistics; 570109 - Machina translation

Identify key words: Cognitive proceedings; Neurophysiology; Physiology psychology; Cognitive proceedings; Medical computing; Virtual reality; Programming language

Previous positions and activities

	Employing entity	Professional category	Start date
1	CENTRO DE AUTOMATICA Y ROBOTICA	Doctor Contratado - FC1	11/06/2018
2		Doctor Contratado - FC1	01/05/2016

	Employing entity	Professional category	Start date
	CENTRO DE AUTOMATICA Y ROBOTICA		
3	CENTRO DE AUTOMATICA Y ROBOTICA (CSIC)	Titulado Superior de Actividades Técnicas y Profesionales (FC1)	16/07/2013
4	CENTRO DE AUTOMATICA Y ROBOTICA (CSIC)	Titulado Superior (FC1)	18/06/2010
5	Instituto de Automática Industrial	Titulado Superior de Actividades Técnicas y Profesionales	01/01/2007
6	Instituto de Automática Industrial	Titulado Superior de Investigación y Laboratorio	01/07/2006
7	Instituto de Automática Industrial	Titulado Superior de Investigación y Laboratorio	12/01/2006
8	Instituto de Automática Industrial	BecarioI3P Postgrado	01/01/2005
9	Instituto de Automática Industrial	Becario Predoctoral	01/09/2004
10	Instituto de Automática Industrial	Becario Predoctoral	01/01/2004
11	Instituto de Automática Industrial	BecarioI3P Postgrado	01/12/2002
12	Instituto de Automática Industrial	Becario Predoctoral	01/10/2002
13	Instituto de Automática Industrial	Becario Predoctoral	01/07/2002
14	Instituto de Automática Industrial	Becario Predoctoral	01/05/2002
15	Instituto de Automática Industrial	Titulado Superior de Investigación y Laboratorio	01/03/2002
16	Instituto de Automática Industrial (CSIC)	Permiso de estancia	01/02/2002

- 1** **Employing entity:** CENTRO DE AUTOMATICA Y ROBOTICA **Type of entity:** State agency
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
- 2** **Employing entity:** CENTRO DE AUTOMATICA Y ROBOTICA **Type of entity:** State agency
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
- 3** **Employing entity:** CENTRO DE AUTOMATICA Y ROBOTICA (CSIC) **Type of entity:** Public Research Body
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

4 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

5 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

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 Investigación y Laboratorio

Start-End date: 01/07/2006 - 31/12/2007

Duration: 6 months

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

Educational Management (Yes/No): No

Start-End date: 12/01/2006 - 30/06/2006

Duration: 5 months - 20 days

Type of contract: Temporary employment contract

Field of management activity: Public Research Body

8 Employing entity: Instituto de Automática Industrial

Type of entity: State agency

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

Professional category: Becariol3P Postgrado

Start-End date: 01/01/2005 - 31/12/2005

Duration: 1 year

Type of contract: Grant-assisted student (pre or post-doctoral, others)

9 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

Educational Management (Yes/No): No

Start-End date: 01/09/2004 - 31/12/2004

Duration: 4 months

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Field of management activity: Public Research Body

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

Educational Management (Yes/No): No



Start-End date: 01/01/2004 - 31/08/2004 **Duration:** 8 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of 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: Becariol3P Postgrado **Educational Management (Yes/No):** No
Start-End date: 01/12/2002 - 30/11/2003 **Duration:** 1 year
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of 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 Predoctoral **Educational Management (Yes/No):** No
Start-End date: 01/10/2002 - 30/11/2002 **Duration:** 2 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of 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 **Educational Management (Yes/No):** No
Start-End date: 01/07/2002 - 30/09/2002 **Duration:** 3 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of 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 **Educational Management (Yes/No):** No
Start-End date: 01/05/2002 - 30/06/2002 **Duration:** 2 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of 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: Titulado Superior de Investigación y Laboratorio **Educational Management (Yes/No):** No
Start-End date: 01/03/2002 - 30/04/2002 **Duration:** 2 months
Type of contract: Temporary employment contract
Field of management activity: Public Research Body
- 16** **Employing entity:** Instituto de Automática Industrial (CSIC)
Professional category: Permiso de estancia
Start date: 01/02/2002 **Duration:** 1 month



Education

University education

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

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

Doctorates

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

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

- 1 Training title:** 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:** Inmerso
End date: 2011
- 6** **Training title:** Envejecimiento. La investigación en España y Europa
Awarding entity: Instituto de Mayores y Servicios Sociales **Type of entity:** imerso
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	C2	C2	C1	C2	C2

Teaching experience



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Evolutionary algorithm for the optimization of graph models of brains
Type of project: Fin de Máster
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
- 2** **Project title:** Desarrollo de algoritmos de análisis inteligente, visualización de datos y procesamiento de señales neurofisiológicas para estudio de enfermedades neurodegenerativas
Type of project: Fin de Máster
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
- 3** **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
- 4** **Project title:** Diseño e implementación de un monitor postural de columna vertebral
Type of project: End of course project
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: Marcos Pérez
Date of reading: 2017
- 5** **Project title:** Diseño e implementación de una interfaz electromecánica para la conducción de sillas de ruedas motorizadas
Type of project: End of course project
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: José Antonio Cue Palero
Date of reading: 2017
- 6** **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: End of course project
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Hugo Kumpel del Castillo
Obtained qualification: Sobresaliente
Date of reading: 07/2016



- 7** **Project title:** Diseño e Implementación de un dispositivo de inducción de estímulos mecánicos para el estudio del dolor neuropático
Type of project: End of course project
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Student: María Belén Sanromán Sasiambarrena
Date of reading: 02/2016
- 8** **Project title:** Diseño e implementación de un sistema BCI para el control del movimiento en realidad virtual inmersiva
Type of project: End of course project
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
- 9** **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
- 10** **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
- 11** **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

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Seminar
Name of the event: Rehabilitación de la Hemiplejía de Miembro Superior: Realidad Virtual
Organising entity: Hermanas Hospitalarias del Sagrado **Type of entity:** Healthcare Institutions
Corazón de Jesús
Hours of teaching: 2
Teaching date: 17/10/2018
- 2** **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
Hours of teaching: 2
Teaching date: 06/07/2018

Type of entity: University

3 Type of event: Seminar

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

Organising entity: Universidad San Pablo CEU

Type of entity: University

Hours of teaching: 3

Teaching date: 08/05/2018

4 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

5 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

6 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

7 Type of event: Seminar

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

City organizing entity: Oswestry, United Kingdom

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

Type of entity: Associations and Groups

Hours of teaching: 2

Teaching date: 27/09/2016

Teaching language: English

8 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

9 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



- 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: 06/2015
- 11** **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
- 12** **Type of event:** Seminar
Name of the event: Introducción a las Arquitecturas Cognitivas, el Modelado Cognitivo y la Consciencia Artificial
Organising entity: Curso de Máster en la Escuela Técnica de Informática, Universidad Politécnica de Madrid (UPM) **Type of entity:** University
Hours of teaching: 4
Teaching date: 10/2011
- 13** **Type of event:** Seminar
Name of the event: Agentes de Información: Casos prácticos desarrollados en el IAI-CSIC
Organising entity: Escuela Técnica de Informática, Universidad Politécnica de Madrid (UPM) **Type of entity:** University
Hours of teaching: 2
Teaching date: 12/2009
- 14** **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
- 15** **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

Type of entity: University Centres and Structures and
Associated Bodies

Start date: 10/2016

Scientific or technological activities

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

1 Name of the project: 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

2 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

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

Duration: 3 years



Dedication regime: Part time

3 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

4 Name of the project: CP-WALKER

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.

Start date: 2013

Duration: 2 years

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

5 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; ...

6 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

7 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; ...

8 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

9 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.

10 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.

11 Name of the project: ELEC Fra II: SISTEMA PARA LA DETECCIÓN Y ELIMINACIÓN DEL FRAUDE ELECTRÓNICO VÍA CORREO ELECTRÓNICO E INTERNET

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

12 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



- 13** **Name of the project:** ELEC-FRA I: SISTEMA PARA LA DETECCIÓN Y ELIMINACIÓN DEL FRAUDE ELECTRÓNICO VÍA CORREO ELECTRÓNICO E INTERNET Entidad financiadora: MCYT, PROFIT-360000-2005-9
Name principal investigator (PI, Co-PI....): Dra. M^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.
- 14** **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
- 15** **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.
- 16** **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
- 17** **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 €



- 18** **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 COGNITVAS PARA LA OPTIMIZACIÓN DE BÚSQUEDAS DIGITALES
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): María Dolores del Castillo Sobrino; José Ignacio Serrano Moreno
Nº of researchers: 2
Participating entity/entities: Consejo Superior de Investigaciones Científicas
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:** ELEC-FRA: 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: WO2007ES70026 20070205
Country of inscription: Spain, Community of Madrid
Date of register: 05/02/2007
Conferral date: 23/08/2007

Technological 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
Start date: 11/2016

Type of entity: Business
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
City receiving entity: Madrid, Community of Madrid, Spain
Start date: 11/2015

Type of entity: Business
Duration: 3 years

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** 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: ISI
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
- 2** 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
Format: Journal

Position of signature: 2

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 4,656

Position of publication: 29

Relevant publication: Yes

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

Corresponding author: No

Category: Science Edition - CLINICAL NEUROLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 199

- 3** 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: ISI

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

- 4** 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: ISI

Impact index in year of publication: 4,122

Position of publication: 12

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 - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 64

- 5** 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, pp. 13. 2021.

DOI: 10.1186/s12984-021-00824-4

PMID: 33478517

Type of production: Scientific paper

Impact source: ISI

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

- 6** 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: ISI

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

- 7** 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: ISI

Impact index in year of publication: 2.474

Position of publication: 32

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

- 8** Maria Maitin, Ana; Perezan, Ramiro; Herraes-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: ISI

Impact index in year of publication: 2.468

Position of publication: 63

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

- 9** 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. In press, Springer, 2020. ISSN 1871-4099

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 3,925

Position of publication: 90

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

- 10** Hernandez-Gallego, Jesus; Llamas-Velasco, Sara; Bermejo-Pareja, Felix; Vega, Saturio; Tapias-Merino, Ester; Rodriguez-Sanchez, Emiliano; Boycheva, Elina; Serrano, J. Ignacio; Gil-Garcia, Juan-Francisco; Trincado, Rocio; Vizcaino Sanchez-Rodrigo, Jose-Maria; Cacho, Jesus; Contador, Israel; Garcia-Ptacek, Sara; Sierra-Hidalgo,



Fernando; Cubo, Esther; Carro, Eva; Villarejo-Galende, Alberto; Garcia Garcia-Patino, Rosalia; Benito-Leon, Julian. NEUROLOGICAL DISORDERS IN CENTRAL SPAIN, SECOND SURVEY: FEASIBILITY PILOT OBSERVATIONAL STUDY. JMIR RESEARCH PROTOCOLS. 8 - 1, pp. e10941. 2019. ISSN 1929-0748

DOI: 10.2196/10941

PMID: 30632964

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 20

Format: Journal

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

- 11** Roberto López-Blanco; Miguel A. Velasco; Antonio Méndez-Guerrero; Juan Pablo Romero; M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon; Julián Benito-León. SMARTWATCH FOR THE ANALYSIS OF REST TREMOR IN PATIENTS WITH PARKINSON'S DISEASE. Journal of the Neurological Sciences. 401, pp. 37 - 42. 2019.

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 2,651

Position of publication: 99

Format: Journal

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

Corresponding author: No

Category: Science Edition - CLINICAL NEUROLOGY

Journal in the top 25%: No

No. of journals in the cat.: 199

- 12** J. Ignacio Serrano; M. Dolores del Castillo; Verónica Cortés; Nuno Mendes; Aida Arroyo; Jorge Andreo; Eduardo Rocon; María del Valle; Jaime Herreros; Juan Pablo Romero. EEG MICROSTATE CHANGE IN RESPONSE TO INCREASE IN DOPAMINERGIC STIMULATION IN TYPICAL PARKINSON'S DISEASE PATIENTS. Frontiers in Neuroscience. 12 - 714, pp. 1 - 9. 2018.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 3,648

Position of publication: 92

Format: Journal

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

Corresponding author: No

Category: Science Edition - NEUROSCIENCES

Journal in the top 25%: No

No. of journals in the cat.: 267

- 13** Verónica Cortés; J. Ignacio Serrano; Nuno Mendes; M. Dolores del Castillo; Aida Arroyo; Jorge Andreo; María del Valle; J. Herreros-Rodríguez; Juan Pablo Romero. EEG MICROSTATES CHANGES IN RESPONSE TO INCREASE IN DOPAMINEERGIC STIMULATION IN TREATED TYPICAL PARKINSON'S DISEASE PATIENTS WITHOUT CLINICAL FLUCTUATIONS. Movement Disorders. 33 - Suppl. 2, pp. S653. 2018.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 9

Impact source: ISI

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

- 14** 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

Format: Journal

Position of signature: 6

Total no. authors: 9

Impact source: ISI

Impact index in year of publication: 2,785

Position of publication: 31

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

- 15** M. Dolores del Castillo; J. Ignacio Serrano; Yolanda Escudero; Sergio Lerma; Ignacio Martínez-Caballero; Eduardo Rocon. EVALUACIÓN NEUROFISIOLÓGICA DEL ENTRENAMIENTO DE LA IMAGINACIÓN MOTORA CON REALIDAD VIRTUAL EN PACIENTES PEDIÁTRICOS CON PARÁLISIS CEREBRAL. Revista Iberoamericana de Automática e Informática Industrial. 15, pp. 174 - 179. Elsevier, 2018.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 1,313

Position of publication: 46

Format: Journal

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

Corresponding author: No

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

Journal in the top 25%: No

No. of journals in the cat.: 62

- 16** Juan Pablo Romero; J. Ignacio Serrano; M. Dolores del Castillo; Aida Arroyo; Verónica Cortés; Jorge Andreo; José Periañez; Marcos Ríos. FINGER TAPPING PROFILE IN "ON STATE" PD PATIENTS. Movement Disorders. 33 - Suppl. 2, pp. S459. 2018.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 8

Impact source: ISI

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

- 17** Miguel Velasco; Roberto López-Blanco; J. Ignacio Serrano; M. Dolores del Castillo; Juan Pablo Romero; Julián Benito-León; Eduardo Rocon. GAIT AND STANCE EVENTS MEASURED WITH SMARTWATCHES IN PATIENTS WITH PD AND ET. Movement Disorders. 33 - Suppl. 2, pp. S523. 2018.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 7

Impact source: ISI

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

- 18** 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. Online, Springer, 2018.

DOI: <https://doi.org/10.1016/j.nrleng.2018.05.009>

Type of production: Scientific paper

Position of signature: 5

Format: Journal



Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 2,038

Position of publication: 137

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

Category: Science Edition - CLINICAL NEUROLOGY

Journal in the top 25%: No

No. of journals in the cat.: 199

- 19** Jesús Hernández-Gallego; Sara Llamas-Velasco; Félix Bermejo-Pareja; Saturio Vega-Quiroga; Ester Tapias-Merino; Emiliano Rodríguez; Elina Boycheva; J. Ignacio Serrano; Juan F. Gil-García; Rocío Trincado; José Vizcaíno; Jesús Cacho; Israel Contador; Sara García-Ptacek; Fernando Hidalgo-Sierra; Esther Cubo; Eva Carro; Alberto Villarejo-Galende; Rosalía García-García; Julián Benito-León. NEUROLOGICAL DISORDERS IN CENTRAL SPAIN, SECOND SURVEY (NEDICES-2): PILOT STUDY, DIFFICULTIES AND FINDINGS. JMIR Research Protocols. En prensa - RR1-10.2196/10941, JMIR Publications, 2018.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 20

Format: Journal

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

Corresponding author: No

- 20** Jesús Oliva; J. Ignacio Serrano; M. Dolores del Castillo; Ángel Iglesias. CROSSLINGUISTIC COGNITIVE MODELING OF VERBAL MORPHOLOGY ACQUISITION. Cognitive Computation. 9, pp. 237 - 258. Springer, 2017.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 3,479

Position of publication: 24

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 132

- 21** Cristina Bayón; Óscar Ramírez; J. Ignacio Serrano; M. Dolores del Castillo; Álvaro Pérez-Somarriba; J. Manuel Belda-Lois; Ignacio Martínez-Caballero; Sergio Lerma; Carlos A. Cifuentes; Anselmo Frizera; Eduardo Rocon. DEVELOPMENT AND EVALUATION OF A NOVEL ROBOTIC PLATFORM FOR GAIT REHABILITATION IN PATIENTS WITH CEREBRAL PALSY: CPWALKER. Robotics and Autonomous Systems. 91, pp. 101 - 114. Elsevier, 2017.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 11

Impact source: ISI

Impact index in year of publication: 2,638

Position of publication: 36

Format: Journal

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

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: No

No. of journals in the cat.: 132

- 22** Esther Monge Pereira; Francisco Molina; Isabela Alguacil; Jaime Ibáñez Pereda; José Ignacio Serrano Moreno; Isabela M. Alguacil-Diego; Juan C. Miangolarra-Page. ELECTROENCEPHALOGRAPHY AS A POST-STROKE ASSESSMENT METHOD: AN UPDATED REVIEW. Neurología. 32 - 1, pp. 40 - 49. Springer, 2017.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 7

Format: Journal

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

Impact source: ISI
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

- 23** 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: ISI
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

- 24** 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: ISI

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

- 25** Jaime Ibáñez; Esther Monge; Francisco Molina; J. Ignacio Serrano; M. Dolores del Castillo; Alicia Cuesta; María Carratalá; Roberto Cano; Isabela Alguacil; Juan Carlos Miangolarra; José L. Pons. LOW LATENCY ESTIMATOIN OF MOTOR INTENTIONS TO ASSIST REACHING MOVEMENTS ALONG MULTIPLE SESSIONS IN CHRONIC STROKE PATIENTS: A FEASIBILITY STUDY. Frontiers in Neuroscience. 11, pp. 126. Frontiers Media, 2017.

Type of production: Scientific paper
Position of signature: 4

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

Total no. authors: 11

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

Category: Science Edition - NEUROSCIENCES
Journal in the top 25%: No
No. of journals in the cat.: 261

- 26** Ángel Iglesias; J. Ignacio Serrano; M. Dolores del Castillo; Jesús Oliva. 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: 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: ISI

Impact index in year of publication: 0,787

Corresponding author: Yes
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: No

**Position of publication:** 112**No. of journals in the cat.:** 132

- 27** Esther Monge-Pereira; Jaime Ibáñez; Isabel M. Alguacil-Diego; J. Ignacio Serrano; María P. Spottorno-Rubio; Francisco Molina-Rueda. USE OF ELECTROENCEPHALOGRAPHY BRAIN-COMPUTER INTERFACES SYSTEMS AS A REHABILITATIVE APPROACH FOR UPPER LIMB FUNCTION AFTER A STROKE: A SYSTEMATIC REVIEW. PM&R. S1934-1482 - (17)30581-6, Elsevier, 2017.
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 1,850
Position of publication: 24
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - REHABILITATION
Journal in the top 25%: No
No. of journals in the cat.: 65
- 28** Sergio Lerma; Ignacio Martínez-Caballero; Cristina Bayón; J. Ignacio Serrano; Rafael Raya; Juan M. Belda-Lois; Teresa Martín; Beatriz Moral; Álvaro Ramírez; Estela Parra; Marta Loma-Ossorio; Eduardo Rocon. CAN ROBOTIC-BASED TOP-DOWN REHABILITATION THERAPIES IMPROVE MOTOR CONTROL IN CHILDREN WITH CEREBRAL PALSY? A PERSPECTIVE ON THE CPWALKER PROJECT. Biomedical Research and Clinical Practice. 1 - 11, pp. 22 - 26. OAText, 2016.
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 12
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 29** Cristina Bayón; Sergio Lerma; Óscar Ramírez; José Ignacio Serrano; M. Dolores del Castillo; Rafael Raya; Juan M. Belda-Lois; Ignacio Martínez-Caballero; Eduardo Rocon. LOCOMOTOR TRAINING THROUGH A NOVEL ROBOTIC PLATFORM FOR GAIT REHABILITATION IN PEDIATRIC POPULATION. Journal of NeuroEngineering and Rehabilitation. 13 - 1, pp. 98. BioMed Central, 2016.
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 9
Impact source: ISI
Impact index in year of publication: 3,516
Position of publication: 3
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Rehabilitation
Journal in the top 25%: Yes
No. of journals in the cat.: 65
- 30** Cristina Bayón; Rafael Raya; Sergio Lerma; Óscar Ramírez; J. Ignacio Serrano; Eduardo Rocon. ROBOTIC THERAPIES FOR CHILDREN WITH CEREBRAL PALSY: A SYSTEMATIC REVIEW. Translational Biomedicine. 7 - 1, pp. 1 - 10. Insight Medical Publishing, 2016.
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 6
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 31** Ángel Iglesias; J. Ignacio Serrano; M. Dolores del Castillo. VALIDATION OF THE KNOWLEDGE REPRESENTED IN A DECISION MAKING MODEL USING PARTICIPANTS' EXPLANATIONS OF DECISIONS. Biologically Inspired Cognitive Architectures. Aceptado, Elsevier, 2016.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Impact source: ISI

Impact index in year of publication: 0,838

Position of publication: 99

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: No

No. of journals in the cat.: 130

- 32** J. Ignacio Serrano; M. Dolores del Castillo; Rafael Raya; Cristina Bayón; Ignacio Martínez-Caballero; Sergio Lerma; Eduardo Rocon. BCI BASADO EN LA FACILITACIÓN ASOCIATIVA DE LA ACTIVIDAD CORTICAL PARA EL INICIO DE LA MARCHA EN PARÁLISIS CEREBRAL. Cognitive Area Networks. 2 - June, pp. 23 - 26. Asociación Nicolo, 2015.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 7

Format: Journal

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

Corresponding author: Yes

- 33** Sergio Lerma; M. Dolores del Castillo; J. Ignacio Serrano; Eduardo Rocon; Rafael Raya; Ignacio Martínez-Caballero. EEG CONTROL OF GAIT IN CHILDREN WITH CEREBRAL PALSY. PRELIMINARY DATA FOR THE CONSTRUCTION OF A BRAIN COMPUTER INTERFACE. Gait & Posture. 42, pp. S42. Elsevier, 2015.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 2.286

Position of publication: 20

Format: Journal

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

Category: Science Edition - SPORT SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 82

- 34** 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

Position of signature: 1

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0,838

Position of publication: 99

Format: Journal

Corresponding author: Yes

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: No

No. of journals in the cat.: 130

- 35** 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

Position of signature: 1

Total no. authors: 7

Format: Book

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

Corresponding author: Yes

- 36** 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. online first, Springer, 2015.

Type of production: Scientific paper

Position of signature: 2

Format: Journal



Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.500

Position of publication: 11

Category: Science Edition - MEDICAL INFORMATICS

Journal in the top 25%: No

No. of journals in the cat.: 24

- 37** 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: ISI

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

- 38** 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: ISI

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

- 39** 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: ISI

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

- 40** 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: ISI

Impact index in year of publication: 0,838

Position of publication: 99

Format: Journal

Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Journal in the top 25%: No

No. of journals in the cat.: 130



- 41** 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
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 0.463
Position of publication: 106
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: No
No. of journals in the cat.: 121
- 42** 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
Position of signature: 2
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 1.532
Position of publication: 40
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.: 76
- 43** 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
Position of signature: 3
Impact source: ISI
Impact index in year of publication: 1.927
Position of publication: 28
Format: Journal
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 115
- 44** 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
Position of signature: 4
Impact source: ISI
Impact index in year of publication: 2.548
Position of publication: 17
Format: Journal
Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 115
- 45** Luis J. Barrios; María Dolores del Castillo; José Ignacio Serrano; José Luis Pons. A REVIEW OF FMRI AS A TOOL FOR ENHANCING EEG-BASED BRAIN-MACHINE INTERFACES. *Applied Bionics and Biomechanics*. 9 - 2, pp. 125 - 133. IOS Press, 2012.
Type of production: Scientific paper
Format: Journal



Position of signature: 3

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0.483

Position of publication: 69

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

- 46** 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: ISI

Category: Science Edition - COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Impact index in year of publication: 1.565

Journal in the top 25%: No

Position of publication: 41

No. of journals in the cat.: 115

- 47** 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: ISI

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

Impact index in year of publication: 0.231

Journal in the top 25%: No

Position of publication: 54

No. of journals in the cat.: 58

- 48** 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: ISI

Category: Science Edition - AUTOMATION & CONTROL SYSTEMS

Impact index in year of publication: 0.231

Journal in the top 25%: No

Position of publication: 54

No. of journals in the cat.: 58

- 49** 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: ISI

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

Impact index in year of publication: 1.422

Journal in the top 25%: No

Position of publication: 41

No. of journals in the cat.: 135



- 50** 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: ISI **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
- 51** 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: ISI **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
- 52** 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: ISI **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
- 53** 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: ISI **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
- 54** 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
- 55** 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

- 56** 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: ISI **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
- 57** 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
- 58** Esther Monge Pereira; José Ignacio Serrano Moreno; Jaime^o 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
- 59** 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
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Position of signature: 5
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
Total no. authors: 11
Impact source: ISI
Impact index in year of publication: 8,222
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Position of signature: 2
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
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Category: Science Edition - CLINICAL NEUROLOGY
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- 70** Juan Pablo Romero; Aida Arroyo; Jorge Andreó; 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.
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Position of signature: 4
Total no. authors: 12
Corresponding author: No
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Type of production: Actas de congreso
Position of signature: 2
Total no. authors: 11
Format: Book
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- 84** Rafael Raya; Óscar Ramírez; M. Dolores del Castillo; J. Ignacio Serrano; Ángel Iglesias; Ramón Ceres; Eduardo Rocon. CPWALKER - PLATAFORMA ROBÓTICA PARA LA REHABILITACIÓN Y EL ENTRENAMIENTO DE LA MARCHA EN PACIENTES CON PARÁLISIS CEREBRAL. Actas de las XXXV Jornadas de Automática. Valencia(Spain): 2014.
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Total no. authors: 9

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Total no. authors: 6

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Total no. authors: 3

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Type of production: Actas de Congreso **Format:** Book
Position of signature: 3
- 110** Ángel Iglesias; María Dolores del Castillo; Matilde Santos; José Ignacio Serrano. CONTROL PARA LA TOMA DE DECISIONES CON MÚLTIPLES CRITERIOS: ESTUDIO COMPARATIVO DE TÉCNICAS INTELIGENTES. Publicación: Proceedings of Jornadas de Automática 2007. Proceedings of Jornadas de Automática 2007. Alemania. 2007.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 4
- 111** María Dolores del Castillo; Ángel Iglesias; José Ignacio Serrano. DETECTING PHISHING E-MAILS BY HETEROGENEOUS CLASSIFICATION. Lecture Notes in Computer Science. 4881, pp. 296 - 305. Springer-Verlag, 2007.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 3
- 112** José Ignacio Serrano; Ángel Iglesias; María Dolores del Castillo. MODELING HUMAN READING IN CONCEPTUAL NETWORKS FOR TEXT REPRESENTATION AND COMPARISON. Publicación: Proceedings of XX International Joint Conference on Neural Networks IJCNN 2007. Proceedings of XX International Joint Conference on Neural Networks IJCNN 2007. pp. 613 - 618. Madrid, Spain. INNS and IEEE Computational Intelligence Society, 2007.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 113** José Ignacio Serrano Moreno; Ángel Iglesias; María Dolores del Castillo. TEXT SIMILARITY BASED ON A COGNITIVE MODEL OF READING. Publicación: Proceedings of Machine Learning and Data Mining MLDM2007. Proceedings of Machine Learning and Data Mining MLDM2007. pp. 27 - 40. IBAI Publishing, 2007.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1



- 114** María Dolores del Castillo; José Ignacio Serrano. AN INTERACTIVE HYBRID SYSTEM FOR IDENTIFYING AND FILTERING UNSOLICITED E-MAIL. Lecture Notes in Computer Science. 4224, pp. 779 - 788. AlemaniaSpringer-Verlag, 2006.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 115** María Dolores del Castillo; José Ignacio Serrano; Ángel Iglesias. CRI, A COMPUTATIONAL MODEL OF COGNITIVE READING FOR DOCUMENT INDEXING Publicación: Proceedings of Brain-Inspired Cognitive Systems BICS06.Proceedings of Brain-Inspired Cognitive Systems BICS06. pp. 66 - 72. Praga.MatfyzPress., 2006.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 2
- 116** José Ignacio Serrano. MACHINE LEARNING METHODS FOR KNOWLEDGE DISCOVERY IN MEDICAL DATA ON ATHEROSCLEROSIS Publicación: Proceedings of Doktorándsky den '06.Proceedings of Doktorándsky den '06. pp. 143 - 155. MatfyzPress, 2006.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 117** José Ignacio Serrano; María Dolores del Castillo. TEXT REPRESENTATION BY A COMPUTATIONAL MODEL OF READING. Lecture Notes in Computer Science. 4232, pp. 237 - 246. Alemania.Springer-Verlag, 2006.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 118** José Ignacio Serrano; María Dolores del Castillo. AN INTERACTIVE HYBRID SYSTEM FOR IDENTIFYING AND FILTERING UNSOLICITED EMAIL Publicación: Proceedings de IEEE/WIC/ACM International Conference on. Proceedings of IEEE/WIC/ACM International Conference on Web Intelligence 2005. 2, pp. 814 - 815. Alemania.IEEE/WIC/ACM, IEEE Computer Society Press, 2005.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 119** José Ignacio Serrano; Lourdes Araujo. EVOLUTIONARY ALGORITHM FOR NOUN PHRASE DETECTION IN NATURAL LANGUAGE PROCESSING Publicación: Proceedings of IEEE CEC05.Proceedings of IEEE Conference on Evolutionary Computation - CEC05. 1, pp. 640 - 646. IEEE Computer Society Press, 2005.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 120** José Ignacio Serrano; Javier Alonso; María Dolores del Castillo; José Eugenio Naranjo. EVOLUTIONARY OPTIMIZATION OF AUTONOMOUS VEHICLE TRACKS Publicación: Proceedings of IEEE CEC05.Proceedings of IEEE Conference on Evolutionary Computation - CEC05. 2, pp. 1332 - 1339. IEEE Computer Society Press, 2005.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 121** José Ignacio Serrano; Javier Alonso; María Dolores del Castillo; José Eugenio Naranjo. EVOLUTIONARY SENSORIAL DATA MINING FOR AUTONOMOUS NAVIGATION Publicación: Proceedings of EUROSENSORS XIX.Proceedings of EUROSENSORS XIX. II - W, pp. WPa44. Canadá.Universidad Autónoma de Barcelona, 2005.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1



- 122** José Ignacio Serrano; Almudena Moreno; María Dolores del Castillo; Héctor Rodríguez. FACE IDENTIFICATION INTERFACE FOR COMMON REAL-LIFE SYSTEMS Publicación: Ambient Intelligence and (Everyday) Life, AmiLife05.Ambient Intelligence and (Everyday) Life, AmiLife05. pp. 37 - 45. EHUko Uda Ikastaroak, 2005.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 123** Javier Alonso; José Ignacio Serrano; María Teresa De Pedro; Carlos González; Ricardo García. OPTIMIZATION OF AN AUTONOMOUS CAR FUZZY CONTROL SYSTEM VIA GENETIC ALGORITHMS Publicación: Proceedings of Workshop on Genetic Fuzzy Systems - GFS 2005. Proceedings of Workshop on Genetic Fuzzy Systems - GFS 2005. pp. 101 - 106. 2005.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 2
- 124** José Ignacio Serrano; María Dolores del Castillo. GENETIC EXTRACTION OF TEXT CATEGORY DESCRIPTIONS Publicación: Proceedings of World Automation Congress WAC2004.Proceedings of World Automation Congress WAC2004. 4, pp. 7 - 12. TSI Press, 2004.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 125** José Ignacio Serrano; María Dolores del Castillo. MODELLING DOCUMENTS CATEGORIES BY EVOLUTIONARY LEARNING OF TEXT CENTROIDS Publicación: Proceedings of Artificial Intelligence Applications and Innovations AIAI IFIP 2004.Proceedings of Artificial Intelligence Applications and Innovations AIAI IFIP 2004. pp. 359 - 368. Kluwer Academic Publisher, 2004.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 1
- 126** María Dolores del Castillo; José Ignacio Serrano; María Paz Sesmero. ARQUITECTURA MULTIAGENTE PARA LA ASIGNACIÓN DE CATEGORÍAS A TEXTOS. Proceedings of Jornadas para el Tratamiento y Recuperación de Información JOTRI'03. pp. 33 - 40. Universidad Carlos III de Madrid, 2003.
Type of production: Actas de Congreso **Format:** Book
Position of signature: 2
- 127** 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
- 128** 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
- 129** 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 ELECTROENCEFALOGRAMA EN ENFERMEDAD DE PARKINSON

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

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Madrid, Spain

Date of event: 2018

Organising entity: Asociación Madrileña de Neurología

Type of entity: Associations and Groups

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

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

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

Type of event: Conference

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Spain

Date of event: 2007

Organising entity: Universidad de las Palmas de Gran Canaria

Type of entity: University

With external admission assessment committee: Yes

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



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



With external admission assessment committee: Yes

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

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

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

Other dissemination activities

- 1 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.
- 2 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.
- 3 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
J. Ignacio Serrano.

Type of entity: Business

- 4** **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 **Type of entity:** Associations and Groups y Gerontología
City organizing entity: Madrid, Community of Madrid, Spain
J. Ignacio Serrano.
- 5** **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.
- 6** **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.
- 7** **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.
- 8** **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 PUBLICO RADIO TELEVISION ESPAÑOLA, S.A.
City organizing entity: Madrid, Spain
"Órbita Laika".



- 9** **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.
- 10** **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.
- 11** **Title of the work:** Ventanas a la Cognición
Name of the event: Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia
Type of event: Conferences given
Corresponding author: Yes
City of event: Arganda del Rey, Spain
Date of event: 11/2013
Organising entity: CENTRO DE AUTOMATICA Y ROBOTICA
Type of entity: State agency
J. Ignacio Serrano.
- 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: 11/2012
Organising entity: CENTRO DE AUTOMATICA Y ROBOTICA
Type of entity: State agency
J. Ignacio Serrano.
- 13** **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
- 14** **Title of the work:** Ventanas a la Cognición
Name of the event: Jornadas de Puertas Abiertas del CAR CSIC. Semana de la Ciencia
Type of event: Conferences given



Corresponding author: Yes

City of event: Arganda del Rey, Spain

Date of event: 11/2011

Organising entity: CENTRO DE AUTOMATICA Y ROBOTICA

Type of entity: State agency

J. Ignacio Serrano.

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: 11/2010

Organising entity: CENTRO DE AUTOMATICA Y ROBOTICA

Type of entity: State agency

J. Ignacio Serrano.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Expert Evaluator Panel of projects - PICT 2019 Programme
Affiliation entity: Argentinian National Agency for the Promotion of Research, Technological Development and Innovation (ANPCyT)
City affiliation entity: Buenos Aires, Argentina
Start-End date: 2020 - 2020
- 2 Committee title:** 40ª Jornadas de Automática (CEA JA2019) Program Committee
Affiliation entity: CEA **Type of entity:** Business
City affiliation entity: Spain
Start-End date: 2019 - 2019
- 3 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
- 4 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
- 5 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

6 **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

7 **Committee title:** Computational Linguistics and Clinical Psychology (CLPysch 2018) Programme Committee
Affiliation entity: North American Chapter of the Association for Computational Linguistics
Start-End date: 2018 - 2018

8 **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

9 **Committee title:** Computational Linguistics and Clinical Psychology (CLPysch 2017) Programme Committee
Affiliation entity: North American Chapter of the Association for Computational Linguistics
Start-End date: 2017 - 2017

10 **Committee title:** IEEE Symposium Series on Computational Intelligence SSCI17 Program Committee
Affiliation entity: IEEE
Start-End date: 2017 - 2017

11 **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

12 **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

13 **Committee title:** IEEE Symposium Series on Computational Intelligence SSCI16 Program Committee
Affiliation entity: IEEE
Start-End date: 2016 - 2016

14 **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

15 **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

16 **Committee title:** Expert Evaluator Panel of Horizon2020 Programme
Affiliation entity: European Commission
Start-End date: 2014 - 2014



- 17** **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
- 18** **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
- 19** **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
- 20** **Committee title:** International Conference on Neural Rehabilitation (ICNR 2012) Program Committee
Affiliation entity: CSIC, Hospital Nacional de Paraplégicos de Toledo. **Type of entity:** State agency
Start-End date: 2012 - 2012
- 21** **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
- 22** **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: Departamento de Lenguajes y Sistemas Informáticos, Escuela Técnica Superior de Ingeniería Informática, UNED **Type of entity:** University
Start date: 2012
- 48** **Name of the activity:** The Spanish Journal of Psychology
Performed tasks: Revisor de artículo
Entity where activity was carried out: Cambridge University Press **Type of entity:** University
Start date: 2011
- 49** **Name of the activity:** 33th Annual Meeting of the Cognitive Science Society, CogSci 2011
Performed tasks: Revisor de artículos
Entity where activity was carried out: Cognitive Science Society **Type of entity:** Associations and Groups
Start date: 2011
- 50** **Name of the activity:** WSEAS Transactions on Information Science and Applications
Performed tasks: Revisor de artículos
Start date: 2011
- 51** **Name of the activity:** Applied Bionics and Biomechanics Journal
Performed tasks: Revisor de artículo
Entity where activity was carried out: Taylor & Francis group **Type of entity:** Editorial científica
Start date: 2010
- 52** **Name of the activity:** 32th Annual Meeting of the Cognitive Science Society, CogSci 2010
Performed tasks: Revisor de artículos
Entity where activity was carried out: Cognitive Science Society **Type of entity:** Associations and Groups
Start date: 2010



- 53** **Name of the activity:** Técnicas de Recuperación de Información para la Resolución de Problemas en la Web", escrita por Juan Martínez Romo y dirigida por la Dra. Lourdes Araujo Serna
Performed tasks: Revisor externo de calidad de tesis doctoral
Entity where activity was carried out: Departamento de Lenguajes y Sistemas Informáticos, Escuela Técnica Superior de Ingeniería Informática, UNED
Type of entity: University
Start date: 2010
- 54** **Name of the activity:** IEEE International Conference on Mechatronics ICM 2009
Performed tasks: Revisor de artículo
Entity where activity was carried out: IEEE
Type of entity: Editorial científica
Start date: 2009
- 55** **Name of the activity:** 31th Annual Meeting of the Cognitive Science Society, CogSci 2009
Performed tasks: Revisor de artículos
Entity where activity was carried out: Cognitive Science Society
Type of entity: Associations and Groups
Start date: 2009
- 56** **Name of the activity:** 4th International Symposium on Intelligence Computation and Applications ISICA 2009
Performed tasks: Revisor de artículos
Entity where activity was carried out: China University of Geosciences and Hubei Normal University
Start date: 2009
- 57** **Name of the activity:** International Conference on Cognitive Modeling ICCM 2009
Performed tasks: Revisor de artículos
Start date: 2009
- 58** **Performed tasks:** Revisor de artículo
Entity where activity was carried out: IEEE Transactions on Evolutionary Computation
Type of entity: Revista científica
Start date: 2008
- 59** **Name of the activity:** 30th Annual Meeting of the Cognitive Science Society CogSci 2008
Performed tasks: Revisor de artículos
Entity where activity was carried out: Cognitive Science Society
Type of entity: Associations and Groups
Start date: 2008
- 60** **Name of the activity:** IEEE EMBS Conference on Neural Engineering 2013
Performed tasks: Revisor de artículos
Entity where activity was carried out: IEEE
City of entity: 2013,



Other achievements

Stays in public or private R&D centres

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

Scientific societies and professional associations

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



5 Name of the society: Task Force on Towards Human-line Intelligence
Affiliation entity: IEEE
Start date: 2011

6 Name of the society: Cognitive Science Society
Start date: 2008

Editorial councils

1 Name of the editorial council: Applied Sciences
Affiliation entity: MDPI **Type of entity:** Business
City affiliation entity: BaselBasel, Switzerland
Start date: 02/2020 **Duration:** 1 year

2 Name of the editorial council: International Journal on Biomedicine and Healthcare
Affiliation entity: EuroMISE Mentor Association **Type of entity:** Associations and Groups
City affiliation entity: PragaPraga, Czech Republic
Geographical area: European Union
Start date: 2015

Co-operation networks

Name of the network: RoboCity2030 - Madrid Robotics Digital Innovation Hub
Identification of the network: RoboCity2030-DIH-CM
City of co-operation network: Madrid, Community of Madrid, Spain
Participating entity/entities: GRVA-UNED; **Type of entity:** University; University; University;
GRob-UPM; ROB-URJC; Robesafe-UAH; Robotics University; University; Public Research Body
Lab - UC3M; CAR-CSIC
Selection entity: Comunidad de Madrid **Type of entity:** _
Start date: 01/01/2019 **Duration:** 4 years

Prizes, mentions and distinctions

1 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

2 Description: 2nd price Innova eVIA 2016 to the spin-off Werium Assisitive Solutions S.L.
Awarding entity: AMETIC **Type of entity:** Associations and Groups
Conferral date: 2016

3 Description: Accessit to Best Technology-based Idea of 2015 to the spin-off Werium Assisitive Solutions S.L.
Awarding entity: Madrid+d Foundation of Knowledge
Conferral date: 2015



- 4** **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
- 5** **Description:** 2º premio en el Annual BCI Research Award 2014
Awarding entity: Guger Technologies (g.tec)
Conferral date: 2014
- 6** **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
- 7** **Description:** Premio "Mejores Ideas de 2013" en la Categoría de Investigación y farmacología
Awarding entity: Diario Médico **Type of entity:** Business
Conferral date: 2013
- 8** **Description:** Premio a la investigación "Trofeos de la Seguridad TIC 2009"
Awarding entity: Revista RED SEGURIDAD **Type of entity:** Business
Conferral date: 2009