



FRANCISCO SERRADILLA GARCIA

Generated from: Universidad Politécnica de Madrid

Date of document: 25/02/2024

v 1.4.0

734fb84c757aa4793d8e0d9d680f73ef

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: <http://cvn.fecyt.es/>

**FRANCISCO SERRADILLA GARCIA**

Surname(s): SERRADILLA GARCIA
Name: FRANCISCO
DNI: 28469876Q
ORCID: 0000-0001-7621-0627
ResearcherID: K-5099-2014
ScopusID: 56303527000
ResearcherID: AAC-8829-2019
Date of birth: 27/04/1965
Gender: Male
Email: francisco.serradilla@upm.es

Current professional situation

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University
Department: SISTEMAS INFORMÁTICOS, E.T.S DE ING. DE SISTEMAS INFORMÁTICOS
Professional category: Catedrático Universidad
City employing entity: Madrid, Spain
Email: francisco.serradilla@upm.es
Start date: 12/07/2023
Dedication regime: Full time

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University
Department: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS
Professional category: ADJUNTO DIRECCIÓN E.T.S.
City employing entity: Madrid, Spain
Email: francisco.serradilla@upm.es
Start date: 10/03/2023

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University
Department: INST.UNIV. INVEST. DEL AUTOMOVIL 'INSIA', INST.UNIV. INVEST. DEL AUTOMOVIL 'INSIA'
Professional category: Member
City employing entity: Madrid, Spain
Email: francisco.serradilla@upm.es
Start date: 19/11/2011

Employing entity: Universidad Politécnica de Madrid **Type of entity:** University
Department: SISTEMAS INFORMÁTICOS
Professional category: Titular Universidad
City employing entity: Madrid, Spain
Email: francisco.serradilla@upm.es

Start date: 07/01/2003**Dedication regime:** Full time**Employing entity:** Universidad Politécnica de Madrid**Type of entity:** University**Department:** INTELIGENCIA ARTIFICIAL**Professional category:** Titular Universidad**City employing entity:** Madrid, Spain**Email:** francisco.serradilla@upm.es**Start date:** 07/01/2003**Dedication regime:** Full time**Previous positions and activities**

	Employing entity	Professional category	Start date
1	Universidad Politécnica de Madrid	SUBDIRECTOR DE E.T.S.	11/05/2021
2	Universidad Politécnica de Madrid	SUBDIRECTOR DE E.T.S.	04/05/2017
3	Universidad Politécnica de Madrid	Titular Universidad	07/01/2003
4	Universidad Politécnica de Madrid	SUBDIRECTOR DE E.U.	09/02/2007
5	Universidad Politécnica de Madrid	Chair	10/05/2005
6	Universidad Politécnica de Madrid	SUBDIRECTOR DE DEPARTAMENTO	26/04/2001
7	Universidad Politécnica de Madrid	SUBDIRECTOR DE DEPARTAMENTO	22/01/1993

- 1** **Employing entity:** Universidad Politécnica de Madrid
Type of entity: University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: SUBDIRECTOR DE E.T.S.
Start-End date: 11/05/2021 - 09/03/2023 **Duration:** 1 year - 9 months - 28 days
Performed tasks: SUBDIRECTOR DE E.T.S.. E.T.S DE ING. DE SISTEMAS INFORMÁTICOS
- 2** **Employing entity:** Universidad Politécnica de Madrid
Type of entity: University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: SUBDIRECTOR DE E.T.S.
Start-End date: 04/05/2017 - 10/05/2021 **Duration:** 4 years - 7 days
Performed tasks: SUBDIRECTOR DE E.T.S.. E.T.S DE ING. DE SISTEMAS INFORMÁTICOS
- 3** **Employing entity:** Universidad Politécnica de Madrid
Type of entity: University
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Titular Universidad
Start-End date: 07/01/2003 - 31/12/2013 **Duration:** 10 years - 11 months - 27 days
Performed tasks: Titular Universidad. SISTEMAS INTELIGENTES APLICADOS (Hasta 2014)
- 4** **Employing entity:** Universidad Politécnica de Madrid
Type of entity: University
City employing entity: Madrid, Community of Madrid, Spain



Professional category: SUBDIRECTOR DE E.U.

Start-End date: 09/02/2007 - 29/04/2009

Duration: 2 years - 2 months - 19 days

Performed tasks: SUBDIRECTOR DE E.U.. E.T.S DE ING. DE SISTEMAS INFORMÁTICOS

5 **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University

City employing entity: Madrid, Community of Madrid, Spain

Professional category: Chair

Start-End date: 10/05/2005 - 08/02/2007

Duration: 1 year - 9 months - 1 day

Performed tasks: Director de Departamento. SISTEMAS INTELIGENTES APLICADOS (Hasta 2014)

6 **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University

City employing entity: Madrid, Community of Madrid, Spain

Professional category: SUBDIRECTOR DE DEPARTAMENTO

Start-End date: 26/04/2001 - 09/05/2005

Duration: 4 years - 14 days

Performed tasks: SUBDIRECTOR DE DEPARTAMENTO. SISTEMAS INTELIGENTES APLICADOS (Hasta 2014)

7 **Employing entity:** Universidad Politécnica de Madrid **Type of entity:** University

City employing entity: Madrid, Community of Madrid, Spain

Professional category: SUBDIRECTOR DE DEPARTAMENTO

Start-End date: 22/01/1993 - 22/09/1995

Duration: 2 years - 7 months - 30 days

Performed tasks: SUBDIRECTOR DE DEPARTAMENTO. SISTEMAS INTELIGENTES APLICADOS (Hasta 2014)



Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: AGENTES INTELIGENTES
Professional category: Professor
University degree: DOBLE GRADO INGENIERIA DE SOFTWARE Y TECNOLOGIAS PARA SOCIEDAD INFORMACION
Course given: 5 **Frequency of the activity:** 1
Start date: 2021 **End date:** 2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 2** **Type of teaching:** Official teaching
Name of the course: AGENTES INTELIGENTES
Professional category: Professor
University degree: GRADO EN INGENIERIA DEL SOFTWARE
Course given: 4 **Frequency of the activity:** 3
Start date: 2017 **End date:** 2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
- 3** **Type of teaching:** Official teaching
Name of the course: INTELIGENCIA ARTIFICIAL
Professional category: Professor
University degree: GRADO EN INGENIERIA DEL SOFTWARE
Course given: 2 **Frequency of the activity:** 5
Start date: 2016 **End date:** 2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 4** **Type of teaching:** Official teaching
Name of the course: SEMINARIOS PROFESIONALES
Professional category: Professor
University degree: MU EN DESARROLLOS DE APLICACIONES Y SERVICIOS PARA DISPOSITIVOS MOVILES
Course given: 1 **Frequency of the activity:** 5
Start date: 2016 **End date:** 2022
Type of hours/ ECTS credits: Credits



Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL

Subject language: Spanish

5 Type of teaching: Official teaching

Name of the course: INTELIGENCIA ARTIFICIAL

Professional category: Professor

University degree: GRADO EN SISTEMAS DE INFORMACION

Course given: 2

Frequency of the activity: 2

Start date: 2015

End date: 2022

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL

6 Type of teaching: Official teaching

Name of the course: PROGRAMACIÓN EN IOS

Professional category: Professor

University degree: MU EN DESARROLLOS DE APLICACIONES Y SERVICIOS PARA DISPOSITIVOS MOVILES

Course given: 1

Frequency of the activity: 6

Start date: 2015

End date: 2022

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL

Subject language: Spanish

7 Type of teaching: Official teaching

Name of the course: CONDUCCIÓN COOPERATIVA, CONECTADA Y AUTÓNOMA

Professional category: Professor

University degree: MASTER UNIVERSITARIO EN INTELIGENCIA ARTIFICIAL

Course given: 1

Frequency of the activity: 1

Start date: 2020

End date: 2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 5

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL

8 Type of teaching: Official teaching

Name of the course: TRABAJO FIN DE MASTER

Professional category: Professor

University degree: MASTER UNIVERSITARIO EN INTELIGENCIA ARTIFICIAL

Course given: 1

Frequency of the activity: 1

Start date: 2020

End date: 2021

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 15

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL

Subject language: Spanish



- 9** **Type of teaching:** Official teaching
Name of the course: INTELIGENCIA ARTIFICIAL
Professional category: Professor
University degree: GRADO EN TECNOLOGIAS PARA LA SOCIEDAD DE LA INFORMACION
Course given: 2 **Frequency of the activity:** 3
Start date: 2018 **End date:** 2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 10** **Type of teaching:** Official teaching
Name of the course: INTELIGENCIA ARTIFICIAL
Professional category: Professor
University degree: DOBLE GRADO INGENIERIA DE SOFTWARE Y TECNOLOGIAS PARA SOCIEDAD INFORMACION
Course given: 2 **Frequency of the activity:** 3
Start date: 2018 **End date:** 2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 11** **Type of teaching:** Official teaching
Name of the course: INTELIGENCIA ARTIFICIAL
Professional category: Professor
University degree: DOBLE GRADO INGENIERIA COMPUTADORES Y TECNOLOGIAS PARA SOCIEDAD INFORMACION
Course given: 2 **Frequency of the activity:** 2
Start date: 2018 **End date:** 2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 12** **Type of teaching:** Official teaching
Name of the course: INTELIGENCIA ARTIFICIAL
Professional category: Professor
University degree: GRADO EN INGENIERIA DE COMPUTADORES
Course given: 2 **Frequency of the activity:** 2
Start date: 2018 **End date:** 2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish



- 13** **Type of teaching:** Official teaching
Name of the course: COMPUTACION UBICUA
Professional category: Professor
University degree: GRADO EN INGENIERIA DEL SOFTWARE
Course given: 3 **Frequency of the activity:** 7
Start date: 2010 **End date:** 2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS
Subject language: Spanish
- 14** **Type of teaching:** Official teaching
Name of the course: AGENTES INTELIGENTES
Professional category: Professor
University degree: GRADO EN SISTEMAS DE INFORMACION
Course given: 4 **Frequency of the activity:** 1
Start date: 2018 **End date:** 2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 15** **Type of teaching:** Official teaching
Name of the course: AGENTES INTELIGENTES
Professional category: Professor
University degree: GRADO EN INGENIERIA DE COMPUTADORES
Course given: 4 **Frequency of the activity:** 1
Start date: 2018 **End date:** 2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 16** **Type of teaching:** Official teaching
Name of the course: PROGRAMACIÓN HÍBRIDA Y MULTIPLATAFORMA
Professional category: Professor
University degree: MU EN DESARROLLOS DE APLICACIONES Y SERVICIOS PARA DISPOSITIVOS MOVILES
Course given: 1 **Frequency of the activity:** 1
Start date: 2018 **End date:** 2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish



- 17** **Type of teaching:** Official teaching
Name of the course: SISTEMAS Y SERVICIOS DE NAVEGACION GPS
Professional category: Professor
University degree: GRADO EN INGENIERIA DEL SOFTWARE
Course given: 4 **Frequency of the activity:** 2
Start date: 2017 **End date:** 2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
- 18** **Type of teaching:** Official teaching
Name of the course: SISTEMAS Y SERVICIOS DE NAVEGACION GPS
Professional category: Professor
University degree: GRADO EN INGENIERIA DE COMPUTADORES
Course given: 4 **Frequency of the activity:** 2
Start date: 2017 **End date:** 2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 19** **Type of teaching:** Official teaching
Name of the course: TENDENCIAS EN INTELIGENCIA ARTIFICIAL
Professional category: Professor
University degree: MASTER UNIVERSITARIO EN CIENCIAS Y TECNOLOGIAS DE LA COMPUTACION
Course given: 1 **Frequency of the activity:** 4
Start date: 2015 **End date:** 2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
- 20** **Type of teaching:** Official teaching
Name of the course: PROGRAMACION AVANZADA DE SMARTPHONES
Professional category: Professor
University degree: MASTER UNIVERSITARIO EN SOFTWARE DE SISTEMAS DISTRIBUIDOS Y EMPOTRADOS
Course given: 1 **Frequency of the activity:** 3
Start date: 2015 **End date:** 2018
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL
Subject language: Spanish
- 21** **Type of teaching:** Official teaching
Name of the course: AGENTES DE INFORMACION
Professional category: Professor
University degree: GRADO EN INGENIERIA DEL SOFTWARE



Course given: 3

Start date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 4

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMÁTICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

Frequency of the activity: 6

End date: 2018

22 Type of teaching: Official teaching

Name of the course: SISTEMAS Y SERVICIOS DE NAVEGACION MEDIANTE GPS

Professional category: Professor

University degree: GRADO EN INGENIERIA DEL SOFTWARE

Course given: 3

Start date: 2010

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 4

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMÁTICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

Frequency of the activity: 6

End date: 2018

23 Type of teaching: Official teaching

Name of the course: METODOS Y TECNICAS DE INVESTIGACION

Professional category: Professor

University degree: MASTER UNIVERSITARIO EN CIENCIAS Y TECNOLOGIAS DE LA COMPUTACION

Course given: 2

Start date: 2016

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 12

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.T.S DE ING. DE SISTEMAS INFORMÁTICOS. INTELIGENCIA ARTIFICIAL

Subject language: Spanish

Frequency of the activity: 1

End date: 2017

24 Type of teaching: Official teaching

Name of the course: TENDENCIAS EN INTELIGENCIA ARTIFICIAL

Professional category: Professor

University degree: MASTER UNIVERSITARIO EN CIENCIAS Y TECNOLOGIAS DE LA COMPUTACION

Course given: 1

Start date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 4

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMÁTICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

Frequency of the activity: 5

End date: 2016

25 Type of teaching: Official teaching

Name of the course: GEOINFORMÁTICA AND CONTEXT AWARE COMPUTING

Professional category: Professor

University degree: MASTER UNIVERSITARIO EN CIENCIAS Y TECNOLOGIAS DE LA COMPUTACION

Course given: 1

Start date: 2012

Type of hours/ ECTS credits: Credits

Frequency of the activity: 3

End date: 2015



Hours/ECTS credits: 6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

26 Type of teaching: Official teaching

Name of the course: TEORIA DE GESTION DE LA INFORMACION (BD)

Professional category: Professor

University degree: GRADO EN INGENIERIA DE COMPUTADORES

Course given: 2

Frequency of the activity: 2

Start date: 2012

End date: 2014

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

27 Type of teaching: Official teaching

Name of the course: PROYECTO FIN DE CARRERA

Professional category: Professor

University degree: INGENIERO TECNICO EN INFORMATICA DE SISTEMAS

Course given: 3

Frequency of the activity: 3

Start date: 2011

End date: 2014

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6,6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

28 Type of teaching: Official teaching

Name of the course: PROYECTO FIN DE CARRERA

Professional category: Professor

University degree: INGENIERO TECNICO EN INFORMATICA DE GESTION

Course given: 3

Frequency of the activity: 3

Start date: 2011

End date: 2014

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6,6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS

Subject language: Spanish

29 Type of teaching: Official teaching

Name of the course: ASPECTOS JURIDICOS, PROFESIONALES, ETICOS Y SOCIALES

Professional category: Professor

University degree: GRADO EN INGENIERIA DEL SOFTWARE

Course given: 1

Frequency of the activity: 1

Start date: 2011

End date: 2012

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 6

Entity: UNIVERSIDAD POLITÉCNICA DE MADRID

Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS



Subject language: Spanish

- 30** **Type of teaching:** Official teaching
Name of the course: ASPECTOS SOCIALES, LEGALES, ETICOS Y PROFESIONALES
Professional category: Professor
University degree: GRADO EN INGENIERIA DE COMPUTADORES
Course given: 1 **Frequency of the activity:** 1
Start date: 2011 **End date:** 2012
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS
Subject language: Spanish
- 31** **Type of teaching:** Official teaching
Name of the course: SISTEMAS INTELIGENTES
Professional category: Professor
University degree: GRADO EN INGENIERIA DE COMPUTADORES
Course given: 4 **Frequency of the activity:** 2
Start date: 2010 **End date:** 2012
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS
Subject language: Spanish
- 32** **Type of teaching:** Official teaching
Name of the course: CARTOGRAFIA DIGITAL Y SISTEMAS DE NAVEGACION GPS
Professional category: Professor
University degree: INGENIERO TECNICO EN INFORMATICA DE SISTEMAS
Course given: 3 **Frequency of the activity:** 1
Start date: 2010 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS
Subject language: Spanish
- 33** **Type of teaching:** Official teaching
Name of the course: COMPUTACION UBICUA
Professional category: Professor
University degree: INGENIERO TECNICO EN INFORMATICA DE SISTEMAS
Course given: 3 **Frequency of the activity:** 1
Start date: 2010 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS
Subject language: Spanish



34 **Type of teaching:** Official teaching
Name of the course: COMPUTACION UBICUA
Professional category: Professor
University degree: INGENIERO TECNICO EN INFORMATICA DE GESTION
Course given: 3 **Frequency of the activity:** 1
Start date: 2010 **End date:** 2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: UNIVERSIDAD POLITÉCNICA DE MADRID
Faculty, institute or centre: E.U. DE INFORMATICA. SISTEMAS INTELIGENTES APLICADOS
Subject language: Spanish

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Aplicaciones del Machine Learning al mantenimiento predictivo de programas de ordenador
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.; BAUMELA MOLINA, LUIS
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Jiang, Zhicheng
Identify key words: Computer systems
Date of reading: 01/11/2022
- 2** **Project title:** Desarrollo de una app iOS para la creación de mapas turísticos
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Viñets Cuervas, Ariadna
Identify key words: Computer systems
Date of reading: 01/07/2022
- 3** **Project title:** Fine-Tuning techniques for the improvement of Question-Answering models
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.; BAUMELA MOLINA, LUIS
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Torre Jimenez-Eguizabal, Patxo
Identify key words: Computer systems
Date of reading: 01/07/2022
- 4** **Project title:** Control de velocidad adaptativo en vehículos autónomos conectados mediante aprendizaje por refuerzo
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.; NARANJO HERNANDEZ, JOSE EUGENIO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Cano De La Torre, Javier
Identify key words: Computer systems
Date of reading: 01/07/2022



- 5** **Project title:** Deep learning: Procesamiento del lenguaje natural utilizando Transformers
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Fustes Montero, Mario
Identify key words: Computer systems
Date of reading: 01/07/2022
- 6** **Project title:** Investigación en nuevas arquitecturas de deep learning para el reconocimiento de caminos en ortofotos
Type of project: Work leading to an ASD
Co-director of thesis: BAUMELA MOLINA, LUIS; Serradilla García, Francisco J.
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Senovilla Tejedor, Alejandro
Identify key words: Computer systems
Date of reading: 01/06/2022
- 7** **Project title:** Contribution to Object Extraction in Cartography : A Novel Deep Learning-Based Solution to Recognise, Segment and Post-Process the Road Transport Network as a Continuous Geospatial Element in High-Resolution Aerial Orthoimagery
Type of project: Doctoral thesis
Co-director of thesis: Serradilla García, Francisco J.; Alcarria Garrido, Ramón Pablo
Entity: E.T.S.I. en Topografía, Geodesia y Cartografía (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Cira, Calimanut-Ionut
Date of reading: 07/03/2022
- 8** **Project title:** Digitalización de una asociación taurina
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Gala Honrado, David
Identify key words: Company; Computer systems
Date of reading: 01/09/2020
- 9** **Project title:** Desarrollo de un juego de tablero en 2D con el engine Unity: CluETSISI
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Herranz González, Noelia
Identify key words: Computer systems
Date of reading: 01/09/2020



- 10** **Project title:** App para el análisis de resultados de carreras de orientación
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Trías Martínez, Juan
Identify key words: Computer systems
Date of reading: 01/09/2020
- 11** **Project title:** Resumen de textos literarios en español por medio de modelos lingüísticos Transformers
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Marco Remón, Guillermo
Identify key words: Computer systems; Literature
Date of reading: 13/07/2020
- 12** **Project title:** Aplicación de métodos de Deep Learning a un sistema de evaluación de estudiantes
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Flores Martínez, Laura
Identify key words: Education; Computer systems
Date of reading: 01/07/2020
- 13** **Project title:** Pix2Pitch: generating music from paintings by using conditionals GANs
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Rivas Ruzafa, Elena
Identify key words: Computer systems
Date of reading: 01/07/2020
- 14** **Project title:** Eliminación de la reverberación en archivos de audio usando Deep Learning
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.; GARCIA MORALES, LINO PEDRO
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Casado Garfia, Alberto
Identify key words: Computer systems
Date of reading: 01/07/2020
- 15** **Project title:** Desarrollo de una aplicación web para la gestión de prácticas externas de la Escuela Técnica Superior de Ingeniería de Sistemas Informáticos
Type of project: End of course project
Co-director of thesis: GARCIA PARDO, EDUARDO; SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain



Student: Longobardo Porras, Javier
Identify key words: Education; Computer systems
Date of reading: 01/07/2020

16 **Project title:** Optimización del empaquetado de productos para una tienda online: una aplicación basada en Drupal

Type of project: End of course project

Co-director of thesis: GARCIA PARDO, EDUARDO; SERRADILLA GARCIA, FRANCISCO

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Ramírez Gómez, Adrián

Identify key words: Company; Computer systems

Date of reading: 01/07/2020

17 **Project title:** NBA Community

Type of project: Work leading to an ASD

Co-director of thesis: Serradilla García, Francisco J.; DIAZ ALVAREZ, ALBERTO

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Palomino Rebolleda, Jorge

Identify key words: Computer systems

Date of reading: 01/01/2020

18 **Project title:** Desarrollo de una aplicación de reproducción de audio y vídeo para iOS

Type of project: Work leading to an ASD

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Guerrero Martín, Alberto

Identify key words: Computer systems

Date of reading: 01/01/2020

19 **Project title:** Redes neuronales recurrentes para la generación automática de música

Type of project: Work leading to an ASD

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S. de Ingenieros Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Cea Morán, Juan Julián

Identify key words: Art; Computer systems

Date of reading: 01/01/2020

20 **Project title:** Análisis del crawling en la actualidad y comparación de diferentes herramientas

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Martínez Rodríguez, Adrián

Identify key words: Computer systems

Date of reading: 01/01/2020



- 21** **Project title:** Aplicación para la gestión de especies y recolecciones micológicas
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Baz Polán, Isabel
Identify key words: Botany; Computer systems
Date of reading: 01/01/2020
- 22** **Project title:** Desarrollo de un sistema web para la presentación de un negocio y sus productos
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Jabonero Martí, Daniel
Identify key words: Company; Computer systems
Date of reading: 01/01/2020
- 23** **Project title:** Herramienta de gestión de proyectos en el marco de Scrum
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Ríos Villacís, Dickson Omar
Identify key words: Computer systems
Date of reading: 01/01/2020
- 24** **Project title:** Reconstrucción del entorno del vehículo para guiado autónomo en escenarios complejos =
Reconstruction of the vehicle environment for autonomous guidance in complex scenarios
Type of project: Doctoral thesis
Co-director of thesis: JIMENEZ ALONSO, FELIPE; Serradilla García, Francisco J.
Entity: E.T.S.I. Industriales (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Clavijo Jiménez, Miguel
Date of reading: 01/01/2020
- 25** **Project title:** Desarrollo de un asistente virtual para dispositivos móviles empleando IBM Watson
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Martín Del Campo, Pablo
Identify key words: Computer systems
Date of reading: 01/07/2019
- 26** **Project title:** Comparación de capacidades entre aprendizaje clásico y cuántico
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO; García Ripoll, Juan José
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Ranz Ribeiro, Carlos



Identify key words: Computer systems
Date of reading: 01/07/2019

27 **Project title:** Investigación de un protocolo de consultoría autónomo con la ayuda de técnicas de aprendizaje automático

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.; Posselt, Stephan A.

Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others

City of entity: Community of Madrid, Spain

Student: Serrano Llabrés, Ignacio

Identify key words: Computer systems

Date of reading: 01/06/2019

28 **Project title:** Arquitectura Flux aplicada a sistemas de gestión de contenidos

Type of project: End of course project

Co-director of thesis: SERRADILLA GARCIA, FRANCISCO

Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others

City of entity: Community of Madrid, Spain

Student: Solís Morales, Rodrigo

Identify key words: Computer systems

Date of reading: 01/06/2019

29 **Project title:** GoMovies. Consulta y gestión de películas y series

Type of project: End of course project

Co-director of thesis: SERRADILLA GARCIA, FRANCISCO

Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others

City of entity: Community of Madrid, Spain

Student: Martínez Moruno, Ignacio

Identify key words: Computer systems

Date of reading: 01/02/2019

30 **Project title:** Diseño evolutivo de arquitecturas de Deep Learning para detección de vías de transporte

Type of project: Work leading to an ASD

Co-director of thesis: Serradilla García, Francisco J.; LOPE ASIAIN, JAVIER DE

Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** Body, others

City of entity: Community of Madrid, Spain

Student: Fuente Castillo, Víctor De La

Identify key words: Computer systems; Transport

Date of reading: 01/01/2019

31 **Project title:** Ar-Madillo app

Type of project: End of course project

Co-director of thesis: SERRADILLA GARCIA, FRANCISCO

Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others

City of entity: Community of Madrid, Spain

Student: Polo Garrido, Alejandro

Identify key words: Computer systems

Date of reading: 20/07/2018



- 32** **Project title:** Aplicación distribuida basada en Amazon Web Services de cursos de aprendizaje
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: López Santos, Diego
Identify key words: Computer systems
Date of reading: 01/07/2018
- 33** **Project title:** Desarrollo de una aplicación para reconocimiento y muestra de información de obras de arte: RecoArt
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Aldas Arguello, Eric Walter
Identify key words: Computer systems
Date of reading: 01/06/2018
- 34** **Project title:** Aplicación móvil iOS para el seguimiento y notificación de trayectos
Type of project: Work leading to an ASD
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Guzmán Chamorro, Eric Daniel
Identify key words: Computer systems
Date of reading: 01/06/2018
- 35** **Project title:** Sistema de reconocimiento de comandos por voz basado en redes de neuronas LSTM
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Vicente Cabero, Juan Manuel
Identify key words: Computer systems
Date of reading: 01/06/2018
- 36** **Project title:** Combinación de técnicas heurísticas y Redes Neuronales Artificiales para la optimización de procesos industriales en una planta de producción de hidrógeno
Type of project: End of course project
Co-director of thesis: GARCIA PARDO, EDUARDO; SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Blanco Linares, Jaime
Identify key words: Computer systems
Date of reading: 01/01/2018
- 37** **Project title:** Deep Learning para sistemas de recomendación basado en contenido
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others



City of entity: Community of Madrid, Spain
Student: Pérez Sastre, Diego
Identify key words: Computer systems
Date of reading: 01/01/2018

38 **Project title:** Introduction to IBM's Watson and its services
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Fernández Ortega, Luis
Identify key words: Computer systems
Date of reading: 01/01/2018

39 **Project title:** Desarrollo de una aplicación de mensajería en android
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Pérez Pérez, Rafael
Identify key words: Computer systems
Date of reading: 01/01/2018

40 **Project title:** Health manager
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Hay Bautista, Enrique
Identify key words: Computer systems
Date of reading: 01/01/2018

41 **Project title:** Desarrollo de aplicación móvil de mensajería en Swift
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Arvilla Gras, Pablo
Identify key words: Computer systems
Date of reading: 01/01/2018

42 **Project title:** Modelado de comportamiento de conductores con técnicas de Inteligencia Computacional
Type of project: Doctoral thesis
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO; JIMENEZ ALONSO, FELIPE
Entity: E.T.S. de Ingenieros Informáticos (UPM) **Type of entity:** University
City of entity: Community of Madrid, Spain
Student: Díaz Álvarez, Alberto
Identify key words: Computer systems
Date of reading: 01/01/2018



- 43** **Project title:** Plataforma de gestión de trading simulado
Type of project: Work leading to an ASD
Co-director of thesis: DIAZ ALVAREZ, ALBERTO; Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Sousa Posincovich, Alan Mark
Identify key words: Computer systems
Date of reading: 01/07/2017
- 44** **Project title:** Aplicación para iOS Meni
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Moldovan, Ovidiu Mircea
Identify key words: Computer systems
Date of reading: 01/07/2017
- 45** **Project title:** Plataforma de gestión de apuestas deportivas
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.; DIAZ ALVAREZ, ALBERTO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Diego Clavo, Héctor De
Identify key words: Computer systems
Date of reading: 01/07/2017
- 46** **Project title:** Aplicación Android para plataforma de escritura creativa colaborativa
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.; DIAZ ALVAREZ, ALBERTO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Alonso Saz, Javier
Identify key words: Computer systems
Date of reading: 01/07/2017
- 47** **Project title:** Seguimiento de transportes de material peligroso
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Marulanda Pérez, Cyndi Juliana
Identify key words: Computer systems
Date of reading: 01/07/2017
- 48** **Project title:** Caché transparente para protocolos P2P
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Tartajo Martínez, Rodrigo



Identify key words: Computer systems
Date of reading: 01/07/2017

- 49** **Project title:** Camera Map : libertad contra seguridad
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Rodríguez Rodríguez, Francisco
Identify key words: Computer systems
Date of reading: 01/07/2017
- 50** **Project title:** WineApp : aplicación de consulta y valoración de vinos
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Magjistari Pulaci, Miguel Arber
Identify key words: Computer systems
Date of reading: 01/07/2017
- 51** **Project title:** Desarrollo de un sistema web para la gestión de imágenes y álbumes
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Sánchez Pedrós, Jaime
Identify key words: Computer systems
Date of reading: 01/03/2017
- 52** **Project title:** Implementación de un videojuego de lucha en 2D
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Monterde Escudero, César
Identify key words: Computer systems
Date of reading: 01/03/2017
- 53** **Project title:** Control de asistencia de alumnos automatizado vía Bluetooth Smart : Tutor
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Sánchez Fernández, Miguel Ángel
Identify key words: Computer systems
Date of reading: 01/01/2017
- 54** **Project title:** melCHORD : aplicación móvil multiplataforma de transcripciones musicales
Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.



Entity: E.T.S.I de Sistemas Informáticos (UPM)
City of entity: Community of Madrid, Spain
Student: San Juan Cervera, Álvaro
Identify key words: Computer systems
Date of reading: 01/07/2016

Type of entity: Body, others

55 Project title: Desarrollo de una aplicación móvil de recomendaciones turísticas con metodologías ágiles

Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM)
City of entity: Community of Madrid, Spain
Student: Pozo Martínez, Ignacio Del
Identify key words: Computer systems
Date of reading: 01/07/2016

Type of entity: Body, others

56 Project title: Desarrollo de una aplicación Android para la localización proactiva de establecimientos

Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM)
City of entity: Community of Madrid, Spain
Student: Laza Cagigas, Javier
Identify key words: Computer systems
Date of reading: 01/07/2016

Type of entity: Body, others

57 Project title: Aplicación Android para la gestión de equipos deportivos enlazado a un bot de Telegram

Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM)
City of entity: Community of Madrid, Spain
Student: Domínguez Peribáñez, Rubén José
Identify key words: Computer systems
Date of reading: 01/07/2016

Type of entity: Body, others

58 Project title: Desarrollo de un sistema para la gestión de planificaciones de una agencia de publicidad de radio y despliegue en un entorno en la nube

Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.; DIAZ ALVAREZ, ALBERTO
Entity: E.T.S.I de Sistemas Informáticos (UPM)
City of entity: Community of Madrid, Spain
Student: Báez García, Sara
Identify key words: Computer systems
Date of reading: 01/07/2016

Type of entity: Body, others

59 Project title: App en iOS para dejar de fumar : Let me quit

Type of project: Work leading to an ASD
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM)
City of entity: Community of Madrid, Spain
Student: Acuña Ledesma, Eduardo Javier
Identify key words: Computer systems
Date of reading: 01/07/2016

Type of entity: Body, others



- 60** **Project title:** Módulo para auxiliar a la creación, documentación y consumición de API ReST escrito en Python
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Sousa Posincovich, Alan Mark
Identify key words: Computer systems
Date of reading: 01/07/2016
- 61** **Project title:** Plataforma de escritura creativa colaborativa
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Alonso Saz, Javier
Identify key words: Computer systems
Date of reading: 01/07/2016
- 62** **Project title:** Sistema dinámico de gestión de tareas
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Diego Clavo, Héctor De
Identify key words: Computer systems
Date of reading: 01/06/2016
- 63** **Project title:** Framework para juegos de estrategia por turnos para Android
Type of project: End of course project
Co-director of thesis: SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Vorobiev, Alexander Vladimirovich
Identify key words: Computer systems
Date of reading: 01/01/2016
- 64** **Project title:** Sistema multiplataforma de gestión integral de huertos urbanos
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.; MIÑANO RUBIO, RAFAEL
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain
Student: Roldán Estébanez, Denis
Identify key words: Computer systems
Date of reading: 01/09/2015
- 65** **Project title:** Mangaapp
Type of project: End of course project
Co-director of thesis: Serradilla García, Francisco J.
Entity: E.T.S.I de Sistemas Informáticos (UPM) **Type of entity:** Body, others
City of entity: Community of Madrid, Spain



Student: Burgos Valdés, Francisco
Identify key words: Computer systems
Date of reading: 01/07/2015

66 **Project title:** Desarrollo de un sistema de arañas inteligentes para la extracción de datos de empresas

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: San Juan Cervera, Álvaro

Identify key words: Computer systems

Date of reading: 01/07/2015

67 **Project title:** Detección de solapes en capas vectoriales : GISProp

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Serradilla Díez, Marcos

Identify key words: Computer systems

Date of reading: 01/07/2015

68 **Project title:** Desarrollo de una aplicación móvil para organizar eventos entre grupos

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Sierra Rodríguez, Luis Miguel

Identify key words: Computer systems

Date of reading: 01/06/2015

69 **Project title:** Desarrollo de sistema para organizar eventos entre grupos

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Fernández Jiménez, Sergio

Identify key words: Computer systems

Date of reading: 01/03/2015

70 **Project title:** AndroFIT

Type of project: End of course project

Co-director of thesis: Serradilla García, Francisco J.

Entity: E.T.S.I de Sistemas Informáticos (UPM)

Type of entity: Body, others

City of entity: Community of Madrid, Spain

Student: Hernández Valencia, Abraham

Identify key words: Computer systems

Date of reading: 01/01/2015



- 71** **Project title:** Predicción espacio-temporal de la irradiancia solar global a corto plazo en España mediante geostatística y redes neuronales artificiales
Type of project: Doctoral thesis
Co-director of thesis: Manso Callejo, Miguel Ángel; SERRADILLA GARCIA, FRANCISCO
Entity: E.T.S.I. en Topografía, Geodesia y Cartografía **Type of entity:** Body, others (UPM)
City of entity: Community of Madrid, Spain
Student: Gutierrez Corea, Federico Vladimir
Obtained qualification: Excellent / Excellent Cum Laude
Date of reading: 01/12/2014

Participation in innovative teaching projects

- 1** **Project title:** DALEK: Digital Analysis and Learning Enhancement Kit
Type of participation: Collaborator
Name of the main researcher: DIAZ ALVAREZ, ALBERTO
Start-End date: 01/02/2024 - 31/10/2024 **Duration:** 9 months
- 2** **Project title:** Empleo de la investigación como medio formativo en asignaturas de Grado y Máster en un ámbito multidisciplinar
City of entity: Community of Madrid, Spain
Type of participation: Collaborator
Name of the main researcher: -
Amount awarded: 1.700 €
Start-End date: 01/01/2022 - 30/11/2022 **Duration:** 11 months
- 3** **Project title:** Aprendizaje de Redes de Neuronas mediante Aula Invertida
City of entity: Community of Madrid, Spain
Type of participation: Co-ordinator
Name of the main researcher: SERRADILLA GARCIA, FRANCISCO
Start-End date: 01/01/2018 - 30/11/2018 **Duration:** 11 months
- 4** **Project title:** Plataforma de aprendizaje experiencial para Inteligencia Artificial
City of entity: Community of Madrid, Spain
Type of participation: Co-ordinator
Name of the main researcher: SERRADILLA GARCIA, FRANCISCO
Start-End date: 01/03/2017 - 30/11/2017 **Duration:** 9 months
- 5** **Project title:** Mejora de la eficiencia en los procesos de adquisición de los resultados del aprendizaje mediante el establecimiento de un itinerario en Inteligencia Artificial para asignaturas de Grado y Master
City of entity: Community of Madrid, Spain
Type of participation: Collaborator
Name of the main researcher: NARANJO HERNANDEZ, JOSE EUGENIO
Start-End date: 01/09/2014 - 30/09/2015 **Duration:** 13 months
- 6** **Project title:** Vehículos eléctricos como estímulo a la innovación y fomento de la inserción laboral de los estudiantes de Tecnologías de la Información
City of entity: Community of Madrid, Spain
Type of participation: Collaborator
Name of the main researcher: NARANJO HERNANDEZ, JOSE EUGENIO

**Start-End date:** 01/11/2012 - 30/11/2014**Duration:** 25 months

- 7 Project title:** Integración de la formación y evaluación en competencias transversales con la preparación de competencias específicas en asignaturas de grado y master

City of entity: Community of Madrid, Spain**Type of participation:** Collaborator**Name of the main researcher:** NARANJO HERNANDEZ, JOSE EUGENIO**Start-End date:** 01/10/2011 - 30/09/2012**Duration:** 12 months

- 8 Project title:** Evaluación de competencias interdisciplinarias mediante planes de prácticas comunes en asignaturas de grado y master en diferentes escuelas utilizando métodos enseñanza/aprendizaje activos.

City of entity: Community of Madrid, Spain**Type of participation:** Collaborator**Name of the main researcher:** NARANJO HERNANDEZ, JOSE EUGENIO**Start-End date:** 01/10/2010 - 30/09/2011**Duration:** 12 months

- 9 Project title:** Evaluación de la efectividad de metodologías docentes en cuanto al desarrollo de competencias transversales en asignaturas de grado y master

City of entity: Community of Madrid, Spain**Type of participation:** Collaborator**Name of the main researcher:** JIMENEZ ALONSO, FELIPE**Start-End date:** 01/10/2010 - 30/09/2011**Duration:** 12 months

- 10 Project title:** Planteamiento de un plan de prácticas comunes en asignaturas de grado y master impartidas en diferentes Escuelas para promover un enfoque multidisciplinar

City of entity: Community of Madrid, Spain**Type of participation:** Collaborator**Name of the main researcher:** JIMENEZ ALONSO, FELIPE**Start-End date:** 01/10/2009 - 30/09/2010**Duration:** 12 months

Scientific and technological experience

Scientific or technological activities

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

- 1 Name of the project:** RED DE CAPACIDADES INTEROPERABLES

Geographical area: National**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI...):** NARANJO HERNANDEZ, JOSE EUGENIO; JIMENEZ ALONSO, FELIPE**Funding entity or bodies:**

CDTI - Centro para el Desarrollo Tecnológico Industrial

Type of participation: Team member**Code according to the funding entity:** IDI-20230397**Start-End date:** 27/04/2023 - 13/10/2025**Duration:** 2 years - 5 months - 18 days



- 2** **Name of the project:** SecBluRed
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): SERRADILLA GARCIA, FRANCISCO
Funding entity or bodies:
CDTI - Centro para el Desarrollo Tecnológico Industrial
Type of participation: Principal investigator
Code according to the funding entity: MIG-20221051
Start-End date: 01/01/2023 - 30/06/2025 **Duration:** 2 years - 5 months - 29 days
- 3** **Name of the project:** Movilidad en la ciudad del futuro. Preparar a las ciudades para la nueva movilidad 2030 a través de las 4 universidades politécnicas españolas.
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Monzón de Cáceres, Andrés
Funding entity or bodies:
Ministerio de Ciencia e Innovación (MICINN)
City funding entity: Spain
Type of participation: Team member
Code according to the funding entity: PLEC2021- 007609
Start-End date: 01/10/2021 - 30/09/2024 **Duration:** 3 years
Participating entity/entities: UPCT - Universidad Politécnica de Cartagena; UPC - Universitat Politècnica de Catalunya; Universidad Politécnica de Valencia; Universidad Politécnica de Madrid; AMB INFORMACIO I SERVEIS, S.A.; ALSA GRUPO SLU
Total amount: 137.540 €
- 4** **Name of the project:** Aprendizaje profundo aplicado al reconocimiento, segmentación semántica, post-procesamiento y extracción de la geometría de viales principales, secundarios y caminos
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Manso Callejo, Miguel Ángel; SERRADILLA GARCIA, FRANCISCO
Funding entity or bodies:
Ministerio de Ciencia e Innovación (MICINN)
City funding entity: Spain
Type of participation: Principal investigator
Code according to the funding entity: PID2020-116448GB-I00
Start-End date: 01/01/2021 - 30/09/2024 **Duration:** 3 years - 8 months - 30 days
Participating entity/entities: Universidad Politécnica de Madrid
Total amount: 19.118 €
- 5** **Name of the project:** Sistema para la automatización de vehículos de transporte público y compartido destinados a entornos semi-estructurados: Automatización y Conectividad
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): NARANJO HERNANDEZ, JOSE EUGENIO; JIMENEZ ALONSO, FELIPE
Funding entity or bodies:
Ministerio de Ciencia e Innovación (MICINN)
City funding entity: Spain



Type of participation: Team member

Code according to the funding entity: PDC2021-121517-C32

Start-End date: 01/12/2021 - 30/11/2023

Duration: 1 year - 11 months - 30 days

Participating entity/entities: Universidad Politécnica de Madrid

Total amount: 58.650 €

6 Name of the project: SIMCA-UPM. Seguridad de vehículos para una movilidad inteligente, sostenible, segura e integradora

Geographical area: Regional

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): NARANJO HERNANDEZ, JOSE EUGENIO

Funding entity or bodies:

Comunidad de Madrid

Type of entity: Body, others

City funding entity: Community of Madrid, Spain

Type of participation: Team member

Start-End date: 01/01/2019 - 30/04/2023

Duration: 4 years - 3 months - 29 days

Participating entity/entities: Universidad Europea de Madrid; Universidad de Alcalá de Henares; Universidad Complutense de Madrid (UCM); Universidad Antonio de Nebrija; UC3M - Universidad Carlos III; CSIC - Consejo Superior de Investigaciones Científicas

Total amount: 22.153,43 €

7 Name of the project: C-ROADS SPAIN

Geographical area: Non EU International

Degree of contribution: Researcher

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): JIMENEZ ALONSO, FELIPE

Funding entity or bodies:

Comisión Europea

Type of entity: Body, others

City funding entity: Région de Bruxelles-Capitale

Innovation and Network Executive Agency (INEA) por la Comisión Europea

City funding entity: Brussels Hoofdstedelijk Gewest, Belgium

Type of participation: Team member

Code according to the funding entity: 27332283

Start-End date: 08/02/2017 - 30/06/2021

Duration: 4 years - 4 months - 22 days

Participating entity/entities: UPC - Universitat Politècnica de Catalunya; Universidad Politécnica de Madrid; Universidad de Valencia - Universitat de València; TSS-TRANSPORT SIMULATION SYSTEMS SL; SEOPAN - Asociación de Empresas Constructoras de Ámbito Nacional; SENSEFIELDS, S.L.; REMOTE SENSING LAB S.L.; Ministerio de Fomento (MFOM); Madrid Calle 30, S.A.; Kapsch Trafficcom AB; Ingartek Consulting, SL; Indra Sistemas S.A.; GMV Sistemas, S.A.; Fundación para la Promoción de la Innovación, Investigación y Desarrollo Tecnológico en la Industria de la Automoción de Galicia; FORO DE NUEVAS TECNOLOGIAS EN EL TRANSPORTE, ITS ESPAÑA ASOCIACION; FERROVIAL CORPORACION SA; EQUIPOS DE SENALIZACION Y CONTROL S.A; Diputación Foral de Bizkaia; AYUNTAMIENTO DE VIGO; AUTOMOBIL CLUB ASISTENCIA SA; ASOCIACION CLUSTER DE MOVILIDAD Y LOGISTICA DE EUSKADI; ASOCIACIÓN CENTRO TECNOLÓGICO CEIT-IK4; ABERTIS AUTOPISTAS ESPAÑA, S.A.

Total amount: 450.000 €

8 Name of the project: Integración de sistemas cooperativos para vehículos autónomos en tráfico compartido: Unidad de control inteligente

Geographical area: National



Degree of contribution: Researcher

Entity where project took place: Instituto Universitario de Investigación del Automóvil

Type of entity: University Research Institute

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): JIMENEZ ALONSO, FELIPE; NARANJO HERNANDEZ, JOSE EUGENIO

Funding entity or bodies:

Ministerio de Economía y Competitividad

City funding entity: Community of Madrid, Spain

Ministerio de Economía y Competitividad (MINECO/SEIDI)

Type of participation: Team member

Code according to the funding entity: TRA2016-78886-C3-3-R

Start-End date: 30/12/2016 - 31/12/2020

Duration: 4 years - 2 days

Participating entity/entities: Universidad Politécnica de Madrid

Total amount: 83.490 €

9 Name of the project: AUTOCITS: REGULATION STUDY FOR INTEROPERABILITY IN THE ADOPTION THE AUTONOMOUS DRIVING IN EUROPEAN URBAN NODES

Geographical area: Non EU International

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): NARANJO HERNANDEZ, JOSE EUGENIO

Funding entity or bodies:

Comisión Europea

Type of entity: Body, others

City funding entity: Région de Bruxelles-Capitale

Type of participation: Team member

Start-End date: 01/11/2016 - 31/03/2019

Duration: 2 years - 4 months - 28 days

Participating entity/entities: Universidade de Coimbra; Universidad Politécnica de Madrid; INSTITUTO PEDRO NUNES, ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO EM CIENCIA E TECNOLOGIA; INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE; DGT (Dirección General de Tráfico)

Total amount: 315.000 €

10 Name of the project: Agente inteligente basado en motor de inspección de imágenes "deep learning" para la gestión avanzada de siniestros (2017-2018)

Geographical area: Regional

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

Name principal investigator (PI, Co-PI....): SERRADILLA GARCIA, FRANCISCO

Type of participation: Principal investigator

Start-End date: 31/01/2017 - 31/12/2018

Duration: 1 year - 10 months - 30 days

Total amount: 30.000 €

11 Name of the project: SIMCA. Seguridad de los vehículos automóviles, por un transporte inteligente, eficiente y seguro

Geographical area: Regional

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): NARANJO HERNANDEZ, JOSE EUGENIO

Funding entity or bodies:

Comunidad de Madrid

Type of entity: Body, others

City funding entity: Community of Madrid, Spain

Type of participation: Team member



Start-End date: 01/10/2014 - 31/12/2018

Duration: 4 years - 3 months - 1 day

Participating entity/entities: Grupo SIC. Universidad Europea de Madrid (UEM); Grupo LSI. Universidad Carlos III de Madrid (UC3M); Grupo ISIS. Universidad de Alcalá de Henares (UAH); Grupo CAR. Consejo Superior de Investigaciones Científicas (CSIC); Grupo AOCG. Universidad Complutense de Madrid (UCM)

Total amount: 30.002,1 €

- 12 Name of the project:** Sistemas cooperativos como soporte para transiciones seguras entre los modos automático y manual en conducción autónoma

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Instituto Universitario de Investigación del Automóvil

Type of entity: University Research Institute

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): JIMENEZ ALONSO, FELIPE

Funding entity or bodies:

DGT (Dirección General de Tráfico)

Dirección General de Tráfico

Type of entity: Body, others

City funding entity: Community of Madrid, Spain

Type of participation: Team member

Code according to the funding entity: SPIP2017-02324

Start-End date: 01/10/2017 - 30/09/2018

Duration: 11 months - 30 days

Participating entity/entities: Universidad Politécnica de Madrid

- 13 Name of the project:** Aviso en tiempo real de velocidad segura según tipo de vehículo y condiciones de la carretera con teléfonos móviles: desarrollo y análisis de impacto

Geographical area: National

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): JIMENEZ ALONSO, FELIPE

Funding entity or bodies:

DGT (Dirección General de Tráfico)

Ministerio del Interior

Type of entity: Body, others

Type of participation: Team member

Code according to the funding entity: SPIP20141452

Start-End date: 14/10/2014 - 13/10/2015

Duration: 11 months - 30 days

Participating entity/entities: Universidad Politécnica de Madrid

Total amount: 37.015 €

- 14 Name of the project:** Comunicaciones en malla para vehículos e infraestructuras inteligentes

Geographical area: National

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): NARANJO HERNANDEZ, JOSE EUGENIO

Funding entity or bodies:

Métodos y Tecnologías de Procesos y Sistemas S.L. (MTP)

Ministerio de Ciencia e Innovación (MICINN)

City funding entity: Spain

Type of participation: Team member

Code according to the funding entity: TRA2010-15645

Start-End date: 01/01/2011 - 30/06/2014

Duration: 3 years - 5 months - 29 days

Total amount: 71.390 €



- 15** **Name of the project:** Desarrollo de un agente proactivo de búsqueda de empleo y acompañamiento psicológico para personas desempleadas mayores de 55 años vía smartphones
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI...): SERRADILLA GARCIA, FRANCISCO
Type of participation: Principal investigator
Code according to the funding entity: TSI-040500-2010-20
Start-End date: 01/01/2010 - 31/12/2012 **Duration:** 3 years
Participating entity/entities: Universidad Politécnica de Madrid
Total amount: 100.000 €
- 16** **Name of the project:** CAPTURAS: "Sistema de Reproducción Avanzada de Capturas Tridimensionales".
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI...): SERRADILLA GARCIA, FRANCISCO
Type of participation: Principal investigator
Code according to the funding entity: TSI-020110-2009-438
Start-End date: 01/01/2009 - 31/12/2011 **Duration:** 2 years - 11 months - 30 days
Total amount: 134.400 €
- 17** **Name of the project:** Comunicaciones entre Vehículos e Infraestructuras (V2V y V2I) basados en Redes en Malla para Sistemas Inteligentes de Trasporte.
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI...): NARANJO HERNANDEZ, JOSE EUGENIO
Funding entity or bodies:
Métodos y Tecnologías de Procesos y Sistemas S.L. (MTP)
Ministerio de Ciencia e Innovación (MICINN)
City funding entity: Spain
Tecnalia - Fundación Robotiker Centro Tecnológico
Type of participation: Team member
Code according to the funding entity: TRA2009-07505
Start-End date: 01/01/2010 - 31/12/2010 **Duration:** 11 months - 30 days
Total amount: 16.940 €
- 18** **Name of the project:** Seguridad de vehículos automóviles con especial atención a usuarios de movilidad reducida
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI...): ZATO RECELLADO, José Gabriel
Funding entity or bodies:
Comunidad de Madrid **Type of entity:** Body, others
City funding entity: Community of Madrid, Spain
Type of participation: Team member
Start-End date: 01/12/2005 - 01/01/2010 **Duration:** 4 years - 1 month - 2 days

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

- 1** **Name of the project:** INVESTIGACION EN NUEVAS METODOLOGIAS DE DESCUBRIMIENTO DE CAMBIOS EN EL TERRITORIO MEDIANTE LA UTILIZACION DE TECNICAS NO CONVENCIONALES
Geographical area: Others
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI...): Manso Callejo, Miguel Ángel
Funding entity or bodies:
 Instituto Geográfico Nacional **Type of entity:** Body, others
City funding entity: Madrid, Community of Madrid, Spain
Code according to the funding entity: P1812570413
Start date: 15/10/2018 **Duration:** 3 years - 3 months - 11 days
- 2** **Name of the project:** ASESORAMIENTO EN LA ELECCION DE PLATAFORMAS DE DESARROLLO DE JUEGOS EN MOVILES
Geographical area: Others
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI...): SERRADILLA GARCIA, FRANCISCO
Code according to the funding entity: P170525B221
Start date: 08/06/2017 **Duration:** 14 days

Scientific and technological activities**Scientific production****Publications, scientific and technical documents**

- 1** Cira CI; Díaz-Alvarez A; Serradilla F...[et al.]. Convolutional Neural Networks Adapted for Regression Tasks: Predicting the Orientation of Straight Arrows on Marked Road Pavement Using Deep Learning and Rectified Orthophotography. Electronics. 12(18), pp. 3980. Elsevier, 2023. ISSN 2079-9292
DOI: 10.3390/electronics12183980
Type of production: Scientific paper **Format:** Journal
Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
- Total no. authors:** 4
Impact source: ISI **Category:** Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 2.9 (Source: JCR Edition 2022)
Position of publication: 72 **No. of journals in the cat.:** 160
- Impact source:** SCOPUS **Category:** Electrical and Electronic Engineering
Impact index in year of publication: 0.628
Position of publication: 233 **No. of journals in the cat.:** 750
- Impact index in year of publication:** ICEE 497.000 SPI (General) - Elsevier



- 2** Clavijo, M; Jimenez, F; SERRADILLA, F...[et al.]. Assessment of CNN-Based Models for Odometry Estimation Methods with LiDAR. Mathematics. 10(18), Multidisciplinary Digital Publishing Institute (MDPI), 2022. ISSN 2227-7390
DOI: 10.3390/math10183234
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 2.4
Position of publication: 23
Impact source: SCOPUS
Impact index in year of publication: 0.446
Position of publication: 154
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - MATHEMATICS
Journal in the top 25%: Yes
No. of journals in the cat.: 330
Category: Engineering (miscellaneous)
No. of journals in the cat.: 426
- 3** Lopez, LFD; Garcia, FS; Hernandez, JEN...[et al.]. Speed Proportional Integrative Derivative Controller: Optimization Functions in Metaheuristic Algorithms. Journal Of Advanced Transportation. 2021, pp. 5538296. Hindawi Limited, 2021. ISSN 0197-6729
DOI: 10.1155/2021/5538296
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 2.249
Position of publication: 86
Impact source: SCOPUS
Impact index in year of publication: 0.569
Position of publication: 317
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, CIVIL
No. of journals in the cat.: 138
Category: Computer Science Applications
No. of journals in the cat.: 786
Citations: 2
- 4** Cira, CI; Manso-Callejo, MA; Alcarria, R...[et al.]. Generative Learning for Postprocessing Semantic Segmentation Predictions: A Lightweight Conditional Generative Adversarial Network Based on Pix2pix to Improve the Extraction of Road Surface Areas. Land. 10(1), pp. 79 - 15. Multidisciplinary Digital Publishing Institute, 2021. ISSN 2073-445X
DOI: 10.3390/land10010079
Type of production: Scientific paper
Position of signature: 6
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 3.905
Position of publication: 56
Impact source: SCOPUS
Impact index in year of publication: 0.685
Position of publication: 119
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Social Sciences Edition - ENVIRONMENTAL STUDIES
No. of journals in the cat.: 128
Category: Science Edition - ECOLOGY
No. of journals in the cat.: 450



- 5** Díaz-Alvarez A; Clavijo M; Jimenez F...[et al.]. Inferring the driver's lane change intention through lidar-based environment analysis using convolutional neural networks. *Sensors*. 21(2), pp. E475 - 16. MDPI AG, 2021. ISSN 1424-8220
DOI: 10.3390/s21020475
PMID: 33440897
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 3.847
Position of publication: 94
Impact source: SCOPUS
Impact index in year of publication: 0.803
Position of publication: 25
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
No. of journals in the cat.: 276
Category: Instrumentation
Journal in the top 25%: Yes
No. of journals in the cat.: 141
Citations: 10
- 6** Gutiérrez-Corea FV; Manso-Callejo MA; Serradilla-García F. Space-time short-term solar radiation modeling and forecasting through artificial neural networks and geostatistics. *Revista Cartográfica*. 2020(100), pp. 13 - 40. Instituto Panamericano de Geografía e Historia, 2020. ISSN 2663-3981
DOI: 10.35424/rcarto.i100.699
DOI: 10.35424/rcarto.v0i100.699
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 3
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 7** Serradilla, Francisco; Canas, Norberto; Naranjo, Jose E. Optimization of the Energy Consumption of Electric Motors through Metaheuristics and PID Controllers. *Electronics*. 9(11), pp. 1 - 16. Elsevier, 2020. ISSN 2079-9292
DOI: 10.3390/electronics9111842
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 2.397
Position of publication: 144
Impact source: SCOPUS
Impact index in year of publication: 0.360
Position of publication: 339
Impact source: Others
Impact index in year of publication: ICEE 319.000 SPI (General) - Elsevier
Position of publication: 10
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
No. of journals in the cat.: 271
Category: Computer Networks and Communications
No. of journals in the cat.: 2.851
No. of journals in the cat.: 428
Citations: 9

- 8** Pardo, Eduardo G; Blanco-Linares, Jaime; Velazquez, David...[et al.]. Optimization of a Steam Reforming Plant Modeled with Artificial Neural Networks. Electronics. 9(11), Elsevier, 2020. ISSN 2079-9292
DOI: 10.3390/electronics9111923
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: 4
Impact source: ISI
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Impact index in year of publication: 2.397
Position of publication: 144
No. of journals in the cat.: 271
Impact source: SCOPUS
Category: Computer Networks and Communications
Impact index in year of publication: 0.360
Position of publication: 339
No. of journals in the cat.: 2.851
Impact source: Others
Impact index in year of publication: ICEE 319.000 SPI (General) - Elsevier
Position of publication: 10
No. of journals in the cat.: 428
- 9** Cira, Calimanut-Ionut; Alcarria, Ramon; Manso-Callejo, Miguel-Angel...[et al.]. A Deep Learning-Based Solution for Large-Scale Extraction of the Secondary Road Network from High-Resolution Aerial Orthoimagery. Applied Sciences-Basel. 10(20), pp. 1 - 18. MDPI AG, Basel, Switzerland (open access), 2020. ISSN 2076-3417
DOI: 10.3390/app10207272
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: 4
Impact source: ISI
Category: Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 2.679
Position of publication: 72
No. of journals in the cat.: 156
Impact source: SCOPUS
Category: Computer Science Applications
Impact index in year of publication: 0.435
Position of publication: 366
No. of journals in the cat.: 2.286
- 10** de la Fuente Castillo V; Díaz-Alvarez A; Manso-Callejo MA...[et al.]. Grammar guided genetic programming for network architecture search and road detection on aerial orthophotography. Applied Sciences-Basel. 10(11), MDPI AG, Basel, Switzerland (open access), 2020. ISSN 2076-3417
DOI: 10.3390/app10113953
Type of production: Scientific paper
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 4
Category: Science Edition - PHYSICS, APPLIED
Impact source: ISI
No. of journals in the cat.: 156
Impact index in year of publication: 2.679
Category: Computer Science Applications
Position of publication: 72
No. of journals in the cat.: 2.286
Impact source: SCOPUS
No. of journals in the cat.: 2.286
Impact index in year of publication: 0.435
Position of publication: 366
Source of citations: SCOPUS
Citations: 5



- 11** Naranjo JE; Serradilla F; Nashashibi F. Speed control optimization for autonomous vehicles with metaheuristics. *Electronics*. 9(4), Elsevier, 2020. ISSN 2079-9292
DOI: 10.3390/electronics9040551
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 2.397
Position of publication: 144
Impact source: SCOPUS
Impact index in year of publication: 0.360
Position of publication: 339
Impact source: Others
Impact index in year of publication: ICEE 319.000 SPI (General) - Elsevier
Position of publication: 10
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
No. of journals in the cat.: 271
Category: Computer Networks and Communications
No. of journals in the cat.: 2.851
No. of journals in the cat.: 428
Citations: 14
- 12** Cira, CI; SERRADILLA GARCIA, FRANCISCO; Alcarria Garrido, Ramón Pablo...[et al.]. A framework based on nesting of convolutional neural networks to classify secondary roads in high resolution aerial orthoimages. *Remote Sensing*. 12(5), Springer US, 2020. ISSN 2072-4292
DOI: 10.3390/rs12050765
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 4.848
Position of publication: 27
Impact source: SCOPUS
Impact index in year of publication: 1.285
Position of publication: 30
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - GEOSCIENCES, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 199
Category: Earth and Planetary Sciences (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 334
- 13** Jimenez, Felipe; Eugenio Naranjo, Jose; Sanchez, Sofia...[et al.]. Communications and Driver Monitoring Aids for Fostering SAE Level-4 Road Vehicles Automation. *Electronics*. 7(10), Elsevier, 2018. ISSN 2079-9292
DOI: 10.3390/electronics7100228
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 1.764
Position of publication: 151
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
No. of journals in the cat.: 263



Impact source: SCOPUS
Impact index in year of publication: 0.461
Position of publication: 67

Category: Hardware and Architecture
Journal in the top 25%: Yes
No. of journals in the cat.: 331

Impact source: Others
Impact index in year of publication: ICEE 319.000 SPI (General) - Elsevier
Position of publication: 10

No. of journals in the cat.: 428

- 14** Diaz-Alvarez, Alberto; Clavijo, Miguel; Jimenez, Felipe...[et al.]. Modelling the human lane-change execution behaviour through Multilayer Perceptrons and Convolutional Neural Networks. Transportation Research Part F-Traffic Psychology And Behaviour. 56, pp. 134 - 148. Elsevier Ltd, 2018. ISSN 1369-8478

DOI: 10.1016/j.trf.2018.04.004

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: 5

Impact source: ISI

Category: Social Sciences Edition - PSYCHOLOGY, APPLIED

Impact index in year of publication: 2.360

Position of publication: 29

No. of journals in the cat.: 81

Impact source: SCOPUS

Impact index in year of publication: 0.993

Position of publication: 54

Category: Civil and Structural Engineering

Journal in the top 25%: Yes

No. of journals in the cat.: 295

Impact source: Others

Impact index in year of publication: A Carhus (Economia)

Category: Economy

Source of citations: SCOPUS

Citations: 40

- 15** Jimenez, Felipe; Eugenio Naranjo, Jose; Serradilla, Francisco...[et al.]. Intravehicular, Short- and Long-Range Communication Information Fusion for Providing Safe Speed Warnings. Sensors. 16(1), pp. E131. MDPI AG, 2016. ISSN 1424-8220

DOI: 10.3390/s16010131

Type of production: Scientific paper

Position of signature: 3

Format: Journal

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

Total no. authors: 8

Impact source: ISI

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Impact index in year of publication: 2.677

Position of publication: 10

Journal in the top 25%: Yes

No. of journals in the cat.: 58

Impact source: SCOPUS

Impact index in year of publication: 0.623

Position of publication: 167

Category: Electrical and Electronic Engineering

Journal in the top 25%: Yes

No. of journals in the cat.: 2.430

Source of citations: SCOPUS

Citations: 7

- 16** Diaz-Alvarez, Alberto; Serradilla-Garcia, Francisco; Javier Anaya-Catalan, Jose...[et al.]. ELECTRIC VEHICLE AUTONOMY ESTIMATION CONSIDERING DRIVING STYLE. Dyna. 90(3), pp. 294 - 299. Publicaciones DYNA SL (<https://www.dynapubli.com/inic...>), 2015. ISSN 0012-7361

DOI: 10.6036/7199



Type of production: Scientific paper
Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.302

Position of publication: 77

Impact source: SCOPUS

Impact index in year of publication: 0.238

Position of publication: 207

Format: Journal

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

Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY

No. of journals in the cat.: 85

Category: Engineering (miscellaneous)

No. of journals in the cat.: 680

- 17** Anaya, Jose J.; Talavera, Edgar; Jimenez, Felipe...[et al.]. Vehicle to Vehicle GeoNetworking using Wireless Sensor Networks. Ad Hoc Networks. 27, pp. 133 - 146. Elsevier, 2015. ISSN 1570-8705

DOI: 10.1016/j.adhoc.2014.12.003

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.66

Position of publication: 42

Impact source: SCOPUS

Impact index in year of publication: 0.675

Position of publication: 93

Impact source: Others

Impact index in year of publication: ICEE 28.210 SPI (General) - Elsevier

Position of publication: 5

Source of citations: SCOPUS

Format: Journal

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

Category: Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS

No. of journals in the cat.: 144

Category: Computer Networks and Communications

Journal in the top 25%: Yes

No. of journals in the cat.: 2.385

No. of journals in the cat.: 608

Citations: 18

- 18** DIAZ ALVAREZ, ALBERTO; SERRADILLA GARCIA, FRANCISCO; Eugenio Naranjo, Jose...[et al.]. Modeling the Driving Behavior of Electric Vehicles Using Smartphones and Neural Networks. Ieee Intelligent Transportation Systems Magazine. 6(3), pp. 44 - 53. Institute of Electrical and Electronics Engineers Inc., 2014. ISSN 1939-1390

DOI: 10.1109/MITS.2014.2322651

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.821

Position of publication: 162

Impact source: SCOPUS

Impact index in year of publication: 0.424

Position of publication: 304

Source of citations: SCOPUS

Format: Journal

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

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

No. of journals in the cat.: 248

Category: Computer Science Applications

No. of journals in the cat.: 1.690

Citations: 83



- 19** Jimenez, Felipe; Serradilla, Francisco; Roman, Alfonso...[et al.]. Bus line classification using neural networks. Transportation Research Part D-Transport And Environment. 30, pp. 32 - 37. Elsevier Ltd, 2014. ISSN 1361-9209
DOI: 10.1016/j.trd.2014.05.008
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 1.937
Position of publication: 27
Impact source: SCOPUS
Impact index in year of publication: 1.428
Position of publication: 32
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Social Sciences Edition - ENVIRONMENTAL STUDIES
No. of journals in the cat.: 100
Category: Civil and Structural Engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 483
Citations: 13
- 20** Naranjo, Jose E.; Jimenez, Felipe; Serradilla, Francisco J....[et al.]. Floating Car Data Augmentation Based on Infrastructure Sensors and Neural Networks. Ieee Transactions On Intelligent Transportation Systems. 13(1), pp. 107 - 114. IEEE, 2012. ISSN 1524-9050
DOI: 10.1109/TITS.2011.2180377
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 3.064
Position of publication: 20
Impact source: SCOPUS
Impact index in year of publication: 1.673
Position of publication: 38
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 243
Category: Computer Science Applications
Journal in the top 25%: Yes
No. of journals in the cat.: 1.653
Citations: 26
- 21** Arroyo, A.; Serradilla, F.; Calvo, O. Adaptive fuzzy knowledge-based systems for control metabots' mobility on virtual environments. Expert Systems. 28(4), pp. 339 - 352. Wiley, 2011. ISSN 0266-4720
DOI: 10.1111/j.1468-0394.2011.00595.x
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 0.684
Position of publication: 54
Impact source: SCOPUS
Impact index in year of publication: 0.297
Position of publication: 137
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - COMPUTER SCIENCE, THEORY & METHODS
No. of journals in the cat.: 99
Category: Artificial Intelligence
No. of journals in the cat.: 987

**Source of citations:** SCOPUS**Citations:** 1

- 22** Gómez N; Mingo L; Bobadilla J...[et al.]. Particle swarm optimization models applied to neural networks using the R language. Wseas Transactions On Systems. 9(2), pp. 192 - 202. World Scientific and Engineering Academy and Society, 2010. ISSN 1109-2777

Type of production: Scientific paper**Position of signature:** 4**Total no. authors:** 5**Impact source:** SCOPUS**Impact index in year of publication:** 0.281**Position of publication:** 419**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Computer Science Applications**No. of journals in the cat.:** 1.731**Citations:** 12

- 23** Bobadilla, J.; Serradilla, F.; Bernal, J.A new collaborative filtering metric that improves the behavior of recommender systems. Knowledge-Based Systems. 23(6), pp. 520 - 528. Elsevier, 2010. ISSN 0950-7051

DOI: 10.1016/j.knosys.2010.03.009**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 1.574**Position of publication:** 44**Impact source:** SCOPUS**Impact index in year of publication:** 0.73**Position of publication:** 145**Impact index in year of publication:** ICEE 121.350 SPI (General) - Elsevier**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**No. of journals in the cat.:** 108**Category:** Software**Journal in the top 25%:** Yes**No. of journals in the cat.:** 2.010**Citations:** 387

- 24** Hernando, Antonio; Bobadilla, Jesus; Serradilla, Francisco. Collaborative Filtering Based on Choosing a Different Number of Neighbors for Each User. Handbook Of Social Network Technologies And Applications. pp. 317 - 330. 2010.

DOI: 10.1007/978-1-4419-7142-5_15**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

- 25** Bobadilla, J.; Serradilla, F.; Hernando, A. Collaborative filtering adapted to recommender systems of e-learning. Knowledge-Based Systems. 22(4), pp. 261 - 265. Elsevier, 2009. ISSN 0950-7051

DOI: 10.1016/j.knosys.2009.01.008**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 3**Impact source:** ISI**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee



Impact index in year of publication: 1.308
Position of publication: 53

No. of journals in the cat.: 102

Impact source: SCOPUS
Impact index in year of publication: 0.468
Position of publication: 274

Category: Software
No. of journals in the cat.: 1.949

Impact index in year of publication: ICEE 121.350 SPI (General) - Elsevier
Citations: 363

26 Lopez-Bascuas, LE; Marin, CC; SERRADILLA, F. A software tool for auditory and speech perception experimentation. Behavior Research, Methods, Instruments, & Computers. 31(2), pp. 334 - 340. 1999. ISSN 0743-3808

DOI: 10.3758/BF03207729

PMID: 10495819

Type of production: Scientific paper
Position of signature: 3

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

Total no. authors: 3

Impact source: ISI

Category: Social Sciences Edition - PSYCHOLOGY, MATHEMATICAL

Impact index in year of publication: 0.871
Position of publication: 2

Journal in the top 25%: Yes
No. of journals in the cat.: 10

Source of citations: SCOPUS

Citations: 4

27 Anguera de Sojo, Aurea; Serradilla, Francisco. Information Agents, Social Web and Intellectual Property. Digital Rights Management: Concepts, Methodologies, Tools, And Applications. pp. 1448 - 1461. 2013. ISBN 10.4018/978-1-4666-2136-7.ch073

DOI: 10.4018/978-1-4666-2136-7.ch073

Type of production: Book chapter
Position of signature: 2

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

Total no. authors: 2

28 de Sojo A; Serradilla F. Information agents, social web and intellectual property. Information Communication Technology Law, Protection And Access Rights: Global Approaches And Issues. pp. 19 - 32. 2010. ISBN 10.4018/978-1-61520-975-0.ch002

DOI: 10.4018/978-1-61520-975-0.ch002

Type of production: Book chapter

Format: Book

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

Total no. authors: 2

29 Riber AG; Serradilla F. Al-rmonies of the Spheres. Lecture Notes In Computer Science. 13988 LNCS, pp. 132 - 147. Springer, 2023. ISSN 0302-9743

DOI: 10.1007/978-3-031-29956-8_9

Collection: LNCS

Position of signature: 2

Degree of contribution: Author or co-author of educational publication

Total no. authors: 2

Impact index in year of publication: ICEE 950.000 SPI (General) - Springer



- 30** Cira C; Alcarria R; Manso-Callejo M. Evaluation of transfer learning techniques with convolutional neural networks (CNNs) to detect the existence of roads in high-resolution aerial imagery. *Communications In Computer And Information Science*. 1051 CCIS, pp. 185 - 198. Springer International Publishing, 2019. ISSN 1865-0929
DOI: 10.1007/978-3-030-32475-9_14
Degree of contribution: Author or co-author of educational publication
Total no. authors: 4
Source of citations: SCOPUS **Citations:** 3
- 31** Diaz-Alvarez, Alberto; Serradilla-Garcia, Francisco; Jimenez-Alonso, Felipe...[et al.]. Fuzzy Controller Inference via Gradient Descent to Model the Longitudinal Behavior on Real Drivers. 2010 IEEE Intelligent Vehicles Symposium (IV). pp. 981 - 986. 2019. ISSN 1931-0587
Position of signature: 2 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: WOS **Citations:** 1
- 32** Alberto Díaz-Álvarez; Francisco Serradilla-García; Felipe Jiménez-Alonso...[et al.]. Fuzzy Controller Inference via Gradient Descent to Model the Longitudinal Behavior on Real Drivers. 2019 IEEE Intelligent Vehicles Symposium (IV). pp. 981 - 986. 2019. ISBN 9781728105604
DOI: 10.1109/IVS.2019.8814180
Position of signature: 2 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: SCOPUS **Citations:** 2
- 33** Jimenez, Felipe; Carlos Amarillo, Juan; Eugenio Naranjo, Jose...[et al.]. Energy consumption estimation in electric vehicles considering driving style. 2015 IEEE 18th International Conference On Intelligent Transportation Systems. 2015-October, pp. 101 - 106. 2015. ISSN 2153-0009
DOI: 10.1109/ITSC.2015.25
Position of signature: 4 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 5
Source of citations: SCOPUS **Citations:** 36
- 34** Arroyo A; Serradilla, Francisco; Calvo O. Modeling spatial-temporal context information in virtual worlds. *Lecture Notes In Computer Science*. 6096 LNAI(PART 1), pp. 437 - 447. Springer, 2010. ISSN 0302-9743
DOI: 10.1007/978-3-642-13022-9_44
Collection: LNCS
Position of signature: 2 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 3
Impact index in year of publication: ICEE 241.530 SPI (General) - Springer
Source of citations: WOS **Citations:** 3
- 35** Bobadilla J; Serradilla F. The Effect of Sparsity on Collaborative Filtering Metrics. *Conferences In Research And Practice In Information Technology Series*. 92, pp. 9 - 17. 2009. ISSN 1445-1336
Degree of contribution: Author or co-author of educational publication
Total no. authors: 2



Impact source: SCOPUS
Impact index in year of publication: 0.225
Position of publication: 327
Source of citations: SCOPUS

Category: Computer Networks and Communications
Journal in the top 25%: Yes
No. of journals in the cat.: 1.495
Citations: 24

- 36** Bobadilla J; Serradilla F; Gutierrez A. Recommender systems: Improving collaborative filtering results. Ictke 2009 - Proceedings 2009 7th International Conference On Ict And Knowledge Engineering. pp. 100 - 105. 2009.

DOI: 10.1109/ICTKE.2009.5397339

Degree of contribution: Author or co-author of educational publication

Total no. authors: 3

Impact source: SCOPUS

Position of publication: 497

Source of citations: SCOPUS

Category: Computer Science (miscellaneous)

No. of journals in the cat.: 497

Citations: 2

- 37** Arroyo A; Serradilla, F.; Calvo O. Multimodal agents in second life and the new agents of virtual 3D environments. Lecture Notes In Computer Science. 5601 LNCS(PART 1), pp. 506 - 516. Springer, 2009. ISSN 0302-9743

DOI: 10.1007/978-3-642-02264-7_52

Collection: LNCS

Position of signature: 2

Total no. authors: 3

Impact index in year of publication: ICEE 241.530 SPI (General) - Springer

Source of citations: SCOPUS

Degree of contribution: Author or co-author of educational publication

Citations: 8

- 38** Bobadilla, Jesus; Serradilla, Francisco; Gutierrez, Abraham. Recommender Systems: Improving Collaborative Filtering Results. 2009 7th International Conference On Ict And Knowledge Engineering. pp. 93 - 99. 2009.

Position of signature: 2

Total no. authors: 3

Source of citations: WOS

Degree of contribution: Author or co-author of educational publication

Citations: 1

- 39** Sánchez J; Serradilla F; Martínez E...[et al.]. Choice of metrics used in collaborative filtering and their impact on recommender systems. 2008 2nd IEEE International Conference On Digital Ecosystems And Technologies, IEEE-Dest 2008. pp. 432 - 436. 2008.

DOI: 10.1109/DEST.2008.4635147

Degree of contribution: Author or co-author of educational publication

Total no. authors: 4

Impact source: SCOPUS

Position of publication: 226

Source of citations: SCOPUS

Category: Management of Technology and Innovation

No. of journals in the cat.: 226

Citations: 33

- 40** Sanchez, J. L.; Serradilla, F.; Martínez, E....[et al.]. Choice of Metrics used in Collaborative Filtering and their Impact on Recommender Systems. 2008 2nd IEEE International Conference On Digital Ecosystems And Technologies. pp. 72 - 76. 2008.

Position of signature: 2

Total no. authors: 4

Degree of contribution: Author or co-author of educational publication



- 41** Maravall D; De Lope J; Serradilla F. Combination of model-based and reactive methods in autonomous navigation. Proceedings - IEEE International Conference On Robotics And Automation. 3, pp. 2328 - 2333. Institute of Electrical and Electronics Engineers Inc., 2000. ISSN 1050-4729
Degree of contribution: Author or co-author of educational publication
Total no. authors: 3
Impact source: SCOPUS **Category:** Electrical and Electronic Engineering
Impact index in year of publication: 0.907 **Journal in the top 25%:** Yes
Position of publication: 73 **No. of journals in the cat.:** 668
Source of citations: SCOPUS **Citations:** 11
- 42** SERRADILLA, F; Maravall, D. A novel approach to autonomous navigation: The sensory gradient concept and its application to mobile robots. Intelligent Autonomous Vehicles 1998 (Iav'98). pp. 261 - 266. 1998. ISBN 0080429297
Position of signature: 1 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 2 **Corresponding author:** Yes
- 43** Serradilla F; Maravall D. Cognitive modeling for navigation of mobile robots using the sensory gradient concept. Lecture Notes In Computer Science. 1333, pp. 273 - 284. Springer, 1997. ISSN 0302-9743
DOI: 10.1007/BFb0025049
Collection: LNCS
Degree of contribution: Author or co-author of educational publication
Total no. authors: 2
Impact index in year of publication: ICEE 241.530 SPI (General) - Springer
Source of citations: SCOPUS **Citations:** 3
- 44** SERRADILLA, F; KUMPEL, D. ROBOT NAVIGATION IN A PARTIALLY KNOWN FACTORY AVOIDING UNEXPECTED OBSTACLES. Intelligent Autonomous Systems 2, Vols 1 And 2. pp. 972 - 980. 1989.
Position of signature: 1 **Degree of contribution:** Author or co-author of educational publication
Total no. authors: 2

Works submitted to national or international conferences

- 1** **Title of the work:** Exploración de técnicas de aprendizaje automático para la mejora de la resolución espacial de ortoimágenes
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk
Date of event: 18/11/2021
 Apellaniz, Monica; Díaz, Alberto; Serradilla, Francisco...[et al.]. "Exploración de técnicas de aprendizaje automático para la mejora de la resolución espacial de ortoimágenes". 01/01/2021. Available on-line at: <https://www.idee.es/resources/presentaciones/JIIDE21/Programa_JIIDE2021.pdf>.
- 2** **Title of the work:** Evaluation of Transfer Learning Techniques with Convolutional Neural Networks (CNNs) to Detect the Existence of Roads in High-Resolution Aerial Imagery
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: Madrid,



Date of event: 06/11/2019

Alcarria Garrido, Ramón Pablo; SERRADILLA GARCIA, FRANCISCO; Manso Callejo, Miguel Ángel. "Evaluation of Transfer Learning Techniques with Convolutional Neural Networks (CNNs) to Detect the Existence of Roads in High-Resolution Aerial Imagery". En: Communications In Computer And Information Science, Vol 1051. Springer, Cham. pp. 185 - 198. 01/01/2019. ISBN 978-3-030-32474-2

3 Title of the work: A deep convolutional neural network to detect the existence of geospatial elements in high-resolution aerial imagery

Name of the conference: The II Geomatics Engineering Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Date of event: 26/06/2019

Type of entity: Body, others

City organizing entity: Madrid,

Calimanut-Ionut Cira; Alcarria Garrido, Ramón Pablo; SERRADILLA GARCIA, FRANCISCO...[et al.]. "A deep convolutional neural network to detect the existence of geospatial elements in high-resolution aerial imagery". En: Proceedings, 2019, Cigeo 2019 the II Geomatics Engineering Conference. pp. 1 - 3. 01/01/2019.

4 Title of the work: Use of neural networks for estimating EVs battery SOC considering driving style

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Bordeaux,

Date of event: 05/10/2015

JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO; NARANJO HERNANDEZ, JOSE EUGENIO. "Use of neural networks for estimating EVs battery SOC considering driving style". En: Its World Congress 2015 Proceedings. pp. 1 - 8. 01/01/2015.

5 Title of the work: Energy consumption estimation in electric vehicles considering driving style

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Las Palmas,

Date of event: 15/09/2015

JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO; NARANJO HERNANDEZ, JOSE EUGENIO. "Energy consumption estimation in electric vehicles considering driving style". En: Intelligent Transportation Systems (Itsc), 2015 Ieee 18th International Conference On. pp. 1 - 8. 01/01/2015.

6 Title of the work: Clasificación de líneas de autobús en base a sus ciclos cinemáticos de operación y datos macroscópicos para la reorganización de la flota

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Málaga,

Date of event: 24/09/2014

ROMAN DE ANDRES, ALFONSO; JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO. "Clasificación de líneas de autobús en base a sus ciclos cinemáticos de operación y datos macroscópicos para la reorganización de la flota". En: Actas Del Xx Congreso Nacional De Ingeniería Mecánica. Asociación Española De Ingeniería Mecánica. pp. 1 - 8. 01/01/2014.

7 Title of the work: Clasificación de líneas de autobús en base a sus ciclos cinemáticos de operación y datos macroscópicos para la reorganización de la flota

Geographical area: National

Type of participation: Participatory - oral communication



City of event: Málaga,

Date of event: 24/09/2014

ROMAN DE ANDRES, ALFONSO; JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO. "Clasificación de líneas de autobús en base a sus ciclos cinemáticos de operación y datos macroscópicos para la reorganización de la flota". En: Actas Del Xx Congreso Nacional De Ingeniería Mecánica. Asociación Española De Ingeniería Mecánica. pp. 1 - 8. 01/01/2014. ISBN 0212-5071

- 8** **Title of the work:** Redistribución de flotas de vehículos para la reducción de consumo y emisiones
Name of the conference: XI Congreso de Ingeniería del Transporte. CIT 2014
Geographical area: National
Type of participation: Participatory - oral communication
Date of event: 09/06/2014
Type of entity: Body, others
City organizing entity: Santander,
ROMAN DE ANDRES, ALFONSO; JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO...[et al.]. "Redistribución de flotas de vehículos para la reducción de consumo y emisiones". En: En Actas Del Xi Congreso De Ingeniería Del Transporte. Cit 2014. pp. 1 - 16. 01/01/2014.
- 9** **Title of the work:** Modelado de conductores mediante smartphones
Geographical area: National
Type of participation: Participatory - oral communication
City of event: Instituto Universitario de Investigación del Automóvil,
Date of event: 10/09/2013
SERRADILLA GARCIA, FRANCISCO. "Modelado de conductores mediante smartphones". 01/01/2013.
- 10** **Title of the work:** La impulsividad mecánica durante la conducción: definición y medición
Name of the conference: Congreso Internacional de Seguridad Vial
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Santander, Cantabria, Spain
Date of event: 16/05/2013
Organising entity: Instituto Europeo de Psicología Aplicada (IEPA) **Type of entity:** Body, others
City organizing entity: Granada, Andalusia, Spain
SERRADILLA GARCIA, FRANCISCO. "La impulsividad mecánica durante la conducción: definición y medición". En: Libro De Resúmenes De Los Trabajos Aceptados En El Congreso Internacional De Seguridad Vial. pp. 70 - 70. Cantabria (Spain): 01/01/2013. ISBN 978-84-695-6989-4
- 11** **Title of the work:** Definition of a Researches Community
Geographical area: Non EU International
Type of participation: Participatory - oral communication
City of event: sevilla,
Date of event: 17/11/2011
R Conejo; SERRADILLA GARCIA, FRANCISCO. "Definition of a Researches Community". pp. 0 - 0. 01/01/2011.
- 12** **Title of the work:** Comparison between Floating Car Data and Infrastructure Sensors for Traffic Speed Estimation
Name of the conference: IEEE ITSC2010 Workshop on Emergent Cooperative Technologies in Intelligent Transportation Systems
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication



City of event: Madeira (Portugal), Portugal

Date of event: 19/09/2010

Organising entity: IEEE

Type of entity: Body, others

ZATO RECELLADO, José Gabriel; JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO... [et al.]. "Comparison between Floating Car Data and Infrastructure Sensors for Traffic Speed Estimation". En: Proceedings Of The 13th International Ieee Conference On Intelligent Transportation Systems workshops. pp. 1 - 6. (Portugal): 01/01/2010. ISBN 978-972-8822-20-0

- 13 Title of the work:** Extensión de un plan de prácticas comunes en asignaturas de grado y master impartidas en diferentes escuelas para promover un enfoque multidisciplinar

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Barcelona, 30 junio - 2 julio 2010,

Date of event: 30/06/2010

JIMENEZ ALONSO, FELIPE; SERRADILLA GARCIA, FRANCISCO; NARANJO HERNANDEZ, JOSE EUGENIO. "Extensión de un plan de prácticas comunes en asignaturas de grado y master impartidas en diferentes escuelas para promover un enfoque multidisciplinar". En: Proceedings. pp. 0 - 0. OES Publications, 01/01/2010. ISBN 978-99955-46-22-9

- 14 Title of the work:** Arroyo, A.; Serradilla, F.; Calvo, O. Modeling Spatial-Temporal Context Information in Virtual Worlds. The Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2010). Córdoba (Spain)

Geographical area: National

Type of participation: Participatory - oral communication

Date of event: 01/01/2010

SERRADILLA GARCIA, FRANCISCO; ARROYO CASTILLO, ANGEL. "Arroyo, A.; Serradilla, F.; Calvo, O. Modeling Spatial-Temporal Context Information in Virtual Worlds. The Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2010). Córdoba (Spain)". 01/01/2010.

- 15 Title of the work:** Recommender Systems: Improving Collaborative Filtering Results

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Bangkok,

Date of event: 04/10/2009

BOBADILLA SANCHO, JESUS; SERRADILLA GARCIA, FRANCISCO. "Recommender Systems: Improving Collaborative Filtering Results". En: Seventh Ieee. International Conference T & Knowledge Engineering (Ictke 2009, Bangkok). pp. 100 - 105. 01/01/2009. ISBN 978-1-4244-4514-1

- 16 Title of the work:** Reducing Recommender Systems Data Base Sizes and Improving their accuracy

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Date of event: 13/07/2009

BOBADILLA SANCHO, JESUS; SERRADILLA GARCIA, FRANCISCO. "Reducing Recommender Systems Data Base Sizes and Improving their accuracy". En: Proceedings Of The 2009 International Conference On Internet Computing, Icomp 2009. pp. 196 - 202. 01/01/2009. ISBN 1-60132-11-4

- 17 Title of the work:** Design of a 3D facial reconstruction system from a single image using genetic algorithms

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Date of event: 10/06/2009



SERRADILLA GARCIA, FRANCISCO; ALCALA CASADO, FRANCISCO JAVIER. "Design of a 3D facial reconstruction system from a single image using genetic algorithms". En: Proceedings Of The Third International Workshop On User-Centric Technologies And Applications. pp. 50 - 55. 01/01/2009. ISBN 978-84-613-2714-0

18 Title of the work: The Incidence of Sparsity on Collaborative Filtering Metrics

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Wellington, NZ, Australia

Date of event: 20/01/2009

BOBADILLA SANCHO, JESUS; SERRADILLA GARCIA, FRANCISCO. "The Incidence of Sparsity on Collaborative Filtering Metrics". En: Twentieth Australasian Database Conference (Adc 2009), Wellington, New Zealand, 20-23 January, 2009, Proceedings. pp. 9 - 18. (Australia): 01/01/2009. ISBN 978-1-920682-73-6

19 Title of the work: Choice of Metrics used in Collaborative Filtering and their Impact on Recommender Systems

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Date of event: 26/02/2008

BOBADILLA SANCHO, JESUS; SERRADILLA GARCIA, FRANCISCO. "Choice of Metrics used in Collaborative Filtering and their Impact on Recommender Systems". En: Proceedings Of The Ieee International Conference On digital Ecosystems And Technologies. pp. 432 - 436. 01/01/2008. ISBN 978-1-4244-1489-5

20 Title of the work: Detección de rostros en imágenes de baja resolución en un robot AIBO mediante algoritmos evolutivos y redes de neuronas

Geographical area: National

Type of participation: Participatory - oral communication

Date of event: 01/01/2007

Daniel Gómez; SERRADILLA GARCIA, FRANCISCO; ALCALA CASADO, FRANCISCO JAVIER...[et al.]. "Detección de rostros en imágenes de baja resolución en un robot AIBO mediante algoritmos evolutivos y redes de neuronas". 01/01/2007.

Other achievements

Periods of research activity

Nº of recognized periods: 3

Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)

Type of entity: State agency

City certifying entity: Madrid, Others, Spain

Date of recognition: 01/01/2019



Obtained accreditations/recognitions

- 1** **Description:** Quinquenios
Nº of recognized periods: 6
Date of reception: 01/01/2022 **Date of recognition:** 01/01/2022
- 2** **Description:** Sexenio de Transferencia
Accrediting entity: Comisión Nacional Evaluadora de la Actividad Investigadora (CNEAI)
City accrediting entity: Madrid, Community of Madrid, Spain
Nº of recognized periods: 1
Date of reception: 01/01/2019 **Date of recognition:** 01/01/2019