CVN CURRÍCULUM VÍTAE NORMALIZADO

Daniel Amigo Herrero
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GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN

FECYT
FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA

Summary of CV

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

Daniel Amigo is a PhD student at Universidad Carlos III de Madrid in Computer Science and Technology. In 2019 he completed a double Master's degree in Computer Engineering and Computer Science and Technology and a bachelor's degree in Computer Engineering in 2017 at the same University. He is involved in several related research projects on traffic tracking and surveillance. During both master's degree he entered at the applied artificial intelligence group (GIAA), where he works as a predoctoral researcher. In addition, he teaches Artificial Intelligence subjects on the bachelor degree he studied and tutors final degree projects in his research areas. Currently he is developing his thesis, where his main lines of research are Machine Learning on vehicle datasets, trajectory compression, real-world mapping using UAVs and generating automatically digital twins for simulation.

Daniel Amigo Herrero

Surname(s):	**Amigo Herrero**
Name:	**Daniel**
DNI:	**01938974M**
ORCID:	**0000-0001-7138-5508**
ResearchGate:	**Daniel-Amigo**
LinkedIn:	**daniel-amigo**
Date of birth:	**15/09/1995**
Gender:	**Male**
Nationality:	**Spain**
Country of birth:	**Spain**
Aut. region/reg. of birth:	**Community of Madrid**
Contact province:	**Madrid**
City of birth:	**Madrid**
Contact country:	**Spain**
Contact aut. region/reg.:	**Community of Madrid**
Land line phone:	**(0034) 618261649**
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Mobile phone:	**(0034) 618261649**
Personal web page:	**https://danielamigo.github.io**

Current professional situation

Employing entity: Universidad Carlos III de Madrid   **Type of entity:** University

Department: Computer Science and Engineering, School of Engineering

Professional category: Predoctoral researcher   **Educational Management (Yes/No):** Yes

City employing entity: Colmenarejo, Community of Madrid, Spain

Email: damigo@inf.uc3m.es

Start date: 12/09/2019

Type of contract: Grant-assisted student (pre or post-doctoral, others)   **Dedication regime:** Full time

Identify key words: Artificial intelligence (neuronal nets, expert systems, etc)

Field of management activity: University

Previous positions and activities

	Employing entity	Professional category	Start date
	Universidad Carlos III de Madrid	Predoctoral researcher during master degree	12/07/2018

Employing entity: Universidad Carlos III de Madrid   **Type of entity:** University

Department: Informática, Universidad Carlos III de Madrid

City employing entity: Colmenarejo, Community of Madrid, Spain

Professional category: Predoctoral researcher during master degree
Email: damigo@inf.uc3m.es
Start-End date: 12/07/2018 - 12/09/2019
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Part time
Field of management activity: University

Educational Management (Yes/No): Yes

Duration: 1 year - 2 months

Education

University education

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

University degree: Higher degree
Name of qualification: Bachelor in Computer Science and Engineering
City degree awarding entity: Colmenarejo, Community of Madrid, Spain
Degree awarding entity: Universidad Carlos III de Madrid   **Type of entity:** University
Date of qualification: 31/07/2017

Doctorates

Doctorate programme: Official Ph.D. Program of Computer Science and Technology
Degree awarding entity: Universidad Carlos III de Madrid   **Type of entity:** University
Date of degree: 01/01/2023
Thesis director: José Manuel Molina López
Thesis co-director: Jesús García Herrero

Other postgraduate university studies

1 **Type of education:** Masters
   Postgraduate qualification: Master in Computer Science and Technology
   City degree awarding entity: Leganés, Community of Madrid, Spain
   Degree awarding entity: Universidad Carlos III de Madrid   **Type of entity:** University
   Date of qualification: 15/10/2019
   Obtained qualification: 8.86

2 **Type of education:** Masters
   Postgraduate qualification: Master in Informatics Engineering
   City degree awarding entity: Leganés, Community of Madrid, Spain
   Degree awarding entity: Universidad Carlos III de Madrid   **Type of entity:** University
   Date of qualification: 09/10/2019
   Obtained qualification: 8.33

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

1 **Training title:** B2 First (FCE)
Awarding entity: Cambridge English
End date: 11/06/2022

2 **Type of training:** Course
Training title: IELTSx: IELTS Academic Test Preparation
Awarding entity: University of Queensland   **Type of entity:** University
Aims of the entity: Curso online de preparación para IELTS
End date: 13/12/2019   **Duration in hours:** 40 hours

3 **Type of training:** Residencies
Training title: English language immersion course
City awarding entity: Huesca, Aragon, Spain
Awarding entity: Universidad Internacional Menéndez Pelayo   **Type of entity:** University
Aims of the entity: Improve the level of English speaking
End date: 08/09/2017   **Duration in hours:** 40 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	B2	B2	B2	B2
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

1 **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Fourth
Start date: 02/2023   **End date:** 05/2023
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

2   **Type of teaching:** Official teaching
Name of the course: Artificial Neural Networks
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Fourth
Start date: 09/2022   **End date:** 01/2023
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

3   **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Fourth
Start date: 02/2022   **End date:** 05/2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

4   **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: Second
Start date: 02/2022   **End date:** 05/2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

5   **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory

University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Fourth
Start date: 02/2021   **End date:** 05/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

6   **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: Second
Start date: 02/2021   **End date:** 05/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

7   **Type of teaching:** Official teaching
Name of the course: Automata and Formal Language Theory
Related skills: 30% workload of small group: exercises and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Second
Start date: 09/2020   **End date:** 01/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Bachelor in Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

8   **Type of teaching:** Official teaching
Name of the course: Automata and Formal Language Theory
Related skills: 30% workload of small group: exercises and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: Second
Start date: 09/2020   **End date:** 01/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University

Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

9 **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 100% workload of small group: exercises, exams and activities.
Type of programme: Engineering **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Fourth
Start date: 02/2020 **End date:** 05/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

10 **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: Second
Start date: 02/2020 **End date:** 05/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

11 **Type of teaching:** Official teaching
Name of the course: Automata and Formal Language Theory
Related skills: 30% workload of small group: exercises and activities.
Type of programme: Engineering **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: Second
Start date: 09/2019 **End date:** 01/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

12 **Type of teaching:** Official teaching
Name of the course: Automata and Formal Language Theory
Related skills: 30% workload of small group: exercises and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: Second
Start date: 09/2019   **End date:** 01/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

13 **Type of teaching:** Official teaching
Name of the course: Programming
Related skills: 15% workload of small group: practice support.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: First
Start date: 09/2019   **End date:** 01/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

14 **Type of teaching:** Official teaching
Name of the course: Programming
Related skills: 15% workload of small group: practice support.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: First
Start date: 09/2019   **End date:** 01/2020
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

15 **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration

Course given: Fourth
Start date: 02/2019   **End date:** 05/2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

16   **Type of teaching:** Official teaching
Name of the course: Artificial Intelligence
Related skills: 50% workload of small group: exercises, exams and activities.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: Second
Start date: 02/2019   **End date:** 05/2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

17   **Type of teaching:** Official teaching
Name of the course: Programming
Related skills: 15% workload of small group: practice support.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Bachelor in Computer Science and Engineering
Course given: First
Start date: 09/2018   **End date:** 01/2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering
City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

18   **Type of teaching:** Official teaching
Name of the course: Programming
Related skills: 15% workload of small group: practice support.
Type of programme: Engineering   **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Dual Bachelor in Computer Science and Engineering and Business Administration
Course given: First
Start date: 09/2018   **End date:** 01/2019
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
Department: Computer Science and Engineering

City of entity: Colmenarejo, Community of Madrid, Spain
Subject language: Spanish

Experience supervising doctoral thesis and/or final year projects

1   **Project title:** Automatic object detection and geolocation by UAVs
     Type of project: End of course project
     Entity: Universidad Carlos III de Madrid   **Type of entity:** University
     City of entity: Leganés, Community of Madrid, Spain
     Student: Pablo de Alba Martínez
     Date of reading: 10/10/2022

2   **Project title:** Generation and analysis of orthomosaics by simulated UAV swarming
     Type of project: End of course project
     Entity: Universidad Carlos III de Madrid   **Type of entity:** University
     City of entity: Colmenarejo, Community of Madrid, Spain
     Student: Marcelino Tena Blanco
     Date of reading: 10/10/2022

3   **Project title:** Road and traffic monitoring from simulated UAVs
     Type of project: End of course project
     Entity: Universidad Carlos III de Madrid   **Type of entity:** University
     City of entity: Leganés, Community of Madrid, Spain
     Student: Diego Fernández Plaza
     Date of reading: 10/10/2022

4   **Project title:** Road networks mapping by artificial intelligence based on aerial imagery
     Type of project: End of course project
     Entity: Universidad Carlos III de Madrid   **Type of entity:** University
     City of entity: Leganés, Community of Madrid, Spain
     Student: Mario Callejo Lara
     Date of reading: 10/10/2022

5   **Project title:** 3D object reconstruction with UAVs
     Type of project: End of course project
     Entity: Universidad Carlos III de Madrid   **Type of entity:** University
     City of entity: Leganés, Community of Madrid, Spain
     Student: Jorge Lizcano Gómez-Calcerrada
     Obtained qualification: 10
     Date of reading: 11/07/2022

6   **Project title:** A CNN approach to feature extraction for transportation mode detection
     Type of project: End of course project
     Entity: Universidad Carlos III de Madrid   **Type of entity:** University
     City of entity: Leganés, Community of Madrid, Spain
     Student: Francisco Fariña Salguero
     Obtained qualification: 10
     Date of reading: 11/07/2022
     Quality recognition: Yes

7 **Project title:** Automatic generation of digital twin roads for 3D environments
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Leganés, Community of Madrid, Spain
Student: Rubén Díaz Fernández
Obtained qualification: 9.2
Date of reading: 11/07/2022

8 **Project title:** Development of decentralised drone swarm architecture in simulated environment
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Colmenarejo, Community of Madrid, Spain
Student: Lázaro Fornis Herranz
Obtained qualification: 9.7
Date of reading: 11/07/2022

9 **Project title:** Development of a gaze-based camera control for drones
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Leganés, Community of Madrid, Spain
Student: Melina
Obtained qualification: 9.2
Date of reading: 15/07/2021

10 **Project title:** Object detection and geolocation by computer vision in moving vehicles
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Colmenarejo, Community of Madrid, Spain
Student: Daniel Romero Ureña
Obtained qualification: 9.1
Date of reading: 15/07/2021

11 **Project title:** Photogrammetric methodology for UAVs in simulated environments
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Colmenarejo, Community of Madrid, Spain
Student: Mengchao Xu Yang
Obtained qualification: 9.7
Date of reading: 15/07/2021

12 **Project title:** Satellite image land cover classification analysis
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Leganés, Community of Madrid, Spain
Student: Carlos García-Mauriño Villanueva
Obtained qualification: 8
Date of reading: 15/07/2021

13 **Project title:** Approach to add real-world objects on digital twin
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University

City of entity: Leganés, Community of Madrid, Spain
Student: Nacho González Díaz-Tendero
Obtained qualification: 9.3
Date of reading: 05/07/2021

14   **Project title:** Automatic detection and geolocation of trees using LiDAR and aerial imagery
Type of project: End of course project
Entity: Universidad Carlos III de Madrid   **Type of entity:** University
City of entity: Colmenarejo, Community of Madrid, Spain
Student: Mario Castellano Berki
Obtained qualification: 9.1
Date of reading: 05/07/2021

Scientific and technological experience

Scientific or technological activities

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

Name of the project: Analysis and design of the multi-sensor data fusion system in SCOMBA F-110 programme
Entity where project took place: Universidad Carlos **Type of entity:** University
III de Madrid
City of entity: Spain
Name principal investigator (PI, Co-PI....): José Manuel Molina López; Jesús García Herrero
Nº of researchers: 4
Funding entity or bodies:
Navantia   **Type of entity:** Business

Start-End date: 01/04/2017 - 31/07/2019
Total amount: 120.000 €

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

Name of the project: Support for OTR (Opportunity Traffic Reconstructor)
Entity where project took place: Universidad Carlos III de Madrid
Degree of contribution: Researcher
Entity where project took place: Universidad Carlos **Type of entity:** University
III de Madrid
Name principal investigator (PI, Co-PI....): Jesús García Herrero; José Manuel Molina López
Funding entity or bodies:
Eurocontrol   **Type of entity:** Business

Start date: 01/07/2020
Total amount: 200.000 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Daniel Amigo Herrero; David Sánchez Pedroche; Jesús García Herrero; José Manuel Molina López. Segmentation optimization in trajectory-based ship classification. Journal of Computational Science. 59, pp. 101568. Elsevier, 01/03/2022. Available on-line at: <https://doi.org/10.1016/j.jocs.2022.101568>.
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   **Corresponding author:** Yes

2 Daniel Amigo Herrero; David Sánchez Pedroche; Jesús García Herrero; José Manuel Molina López. Review and classification of trajectory summarisation algorithms: From compression to segmentation. International Journal of Distributed Sensor Networks. 17 - 10, SagePub, 30/10/2021. Available on-line at: <https://doi.org/10.1177/15501477211050729>.
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   **Corresponding author:** Yes

3 David Sánchez Pedroche; Daniel Amigo Herrero; Jesús García Herrero; José Manuel Molina López. Architecture for Trajectory-Based Fishing Ship Classification with AIS Data. Special Issue Information Fusion and Machine Learning for Sensors. 20 - 13, pp. 3782. Sensors, 06/07/2020. Available on-line at: <https://doi.org/10.3390/s20133782>.
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   **Corresponding author:** Yes

Works submitted to national or international conferences

1 **Title of the work:** UAV Simulation for Object Detection and 3D Reconstruction Fusing 2D LiDAR and Camera
Name of the conference: 17th International Conference on Soft Computing Models in Industrial and Environmental Applications
Type of event: Conference
Type of participation: Participatory - oral communication   **Reasons for participation:** Review before acceptance
Corresponding author: Yes
City of event: Salamanca, Basque Country, Spain
Date of event: 07/09/2022
Organising entity: Universidad de Salamanca   **Type of entity:** University
Type of contribution: Scientific paper
Daniel Amigo Herrero; Jesús García Herrero; José Manuel Molina López; Jorge Lizcano Gómez-Calcerrada.

2 **Title of the work:** Automatic Individual Tree Detection from Combination of Aerial Imagery, LiDAR and Environment Context
Name of the conference: 16th International Conference on Soft Computing Models in Industrial and Environmental Applications
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Bilbao, Basque Country, Spain
Date of event: 01/09/2021
Organising entity: Universidad de Deusto
Type of entity: University
Type of contribution: Scientific paper
Daniel Amigo Herrero; David Sánchez Pedroche; Jesús García Herrero; José Manuel Molina López.

3 **Title of the work:** Automatic context learning based on 360 imageries triangulation and 3D LiDAR validation
Name of the conference: 24th International Conference on Information Fusion
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Rustenburg, South African Republic
Date of event: 01/07/2021
End date: 04/07/2019
Organising entity: International Society of Information Fusion
Publication in conference proceedings: Yes
Type of contribution: Scientific paper
Daniel Amigo Herrero; David Sánchez Pedroche; Jesús García Herrero; José Manuel Molina López. Available on-line at: <https://ieeexplore.ieee.org/document/9011384>.

4 **Title of the work:** Clustering of maritime trajectories with AIS features for context learning
Name of the conference: 24th International Conference on Information Fusion
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Rustenburg, South African Republic
Date of event: 01/07/2021
End date: 04/07/2019
Organising entity: International Society of Information Fusion
Publication in conference proceedings: Yes
Type of contribution: Scientific paper
David Sánchez Pedroche; Daniel Amigo Herrero; Jesús García Herrero; José Manuel Molina López. Available on-line at: <https://ieeexplore.ieee.org/document/9011384>.

5 **Title of the work:** Segmentation Optimization in Trajectory-Based Ship Classification
Name of the conference: 15th International Conference on Soft Computing Models in Industrial and Environmental Applications
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Burgos, Castile and León, Spain

Date of event: 01/09/2020
Organising entity: Universidad de Burgos **Type of entity:** University
Type of contribution: Scientific paper
Daniel Amigo Herrero; David Sánchez Pedroche; Jesús García Herrero; José Manuel Molina López.

6 **Title of the work:** Context information analysis from IMM filtered data classification
Name of the conference: 1st Maritime Situational Awareness Workshop
Type of event: Conference
Type of participation: Participatory - oral **Reasons for participation:** Review before
communication acceptance
Corresponding author: No
City of event: Lerici, Liguria, Italy
Date of event: 01/09/2019
Organising entity: NATO STO Centre for Maritime Research and Experimentation (CMRE)
Type of contribution: Scientific paper
David Sánchez Pedroche; Daniel Amigo Herrero; Jesús García Herrero; José Manuel Molina López.

7 **Title of the work:** AIS trajectory classification based on IMM data
Name of the conference: 22th International Conference on Information Fusion
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral **Reasons for participation:** Review before
communication acceptance
Corresponding author: Yes
City of event: Ottawa, Canada
Date of event: 01/07/2019
End date: 04/07/2019
Organising entity: International Society of Information Fusion
Publication in conference proceedings: Yes
Type of contribution: Scientific paper
Daniel Amigo Herrero; David Sánchez Pedroche; Jesús García Herrero; José Manuel Molina López.
Available on-line at: <https://ieeexplore.ieee.org/document/9011384>.

Other achievements

Obtained grants and scholarships

1 **Name of the grant:** Predoctoral Research Personnel in Training (PIPF UC3M 01-1920)
Aims: Pre-doctoral
Awarding entity: Universidad Carlos III de Madrid **Type of entity:** University
Conferral date: 2019 **Duration:** 4 years
End date: 2023
Entity where activity was carried out: Universidad Carlos III de Madrid

2 **Name of the grant:** Grants for the study of university master's degrees, M02-1819
Aims: Pre-doctoral
Awarding entity: Universidad Carlos III de Madrid **Type of entity:** University
Conferral date: 2018 **Duration:** 1 year
End date: 2019
Entity where activity was carried out: Universidad Carlos III de Madrid

3 **Name of the grant:** Spanish grant of general character for master's degree (MECD)
Aims: Pre-doctoral
Awarding entity: Universidad Carlos III de Madrid   **Type of entity:** University
Conferral date: 2017   **Duration:** 1 year
End date: 2018
Entity where activity was carried out: Universidad Carlos III de Madrid

4 **Name of the grant:** Spanish grant of general character for bachelor's degree (MECD)
Aims: Pre-doctoral
Awarding entity: Universidad Carlos III de Madrid   **Type of entity:** University
Conferral date: 2013   **Duration:** 4 years
End date: 2017
Entity where activity was carried out: Universidad Carlos III de Madrid