



HAIS  
2026



**18<sup>th</sup>- 19<sup>th</sup> June 2026 – Marbella (SPAIN)**



# CONFERENCE PROGRAMME

**21<sup>st</sup> International Conference on Hybrid Artificial Intelligence Systems  
HAIS 2026**

<http://haisconference.eu>

**21<sup>st</sup> International Conference on Soft Computing Models in Industrial  
and Environmental Applications  
SOCO 2026**

<http://sococonference.eu>

**19<sup>th</sup> International Conference on Computational Intelligence in  
Security for Information Systems  
CISIS 2026**

<http://cisisconference.eu>

**17<sup>th</sup> International Conference on EUropean Transnational Education  
ICEUTE 2026**

<http://iceuteconference.eu>



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## WELCOME

HAIS, SOCO, CISIS, and ICEUTE series of conferences are unmissable events in the scientific community for those of us who focus our professional and research activity on machine learning, computer science, cybersecurity, education, and engineering disciplines.

This year, all conferences are jointly held in the beautiful city of Marbella and in collaboration with the international event Startup Olé Marbella. This annual meeting point allows us to discuss ideas, present results, and present projects related to this discipline. Throughout these three days, we will have a total of 22 sessions, 119 scientific papers, and 2 plenary talks by international speakers.

We thank all the participants for their invaluable contribution to this event: the authors of the papers presented, the speakers at the plenary sessions and the Scientific Committee.

Particular thanks go as well to the conference's main sponsors, Startup Olé Marbella, BISITE research group at the University of Salamanca, CTC research group at the University of A Coruña, and the University of Salamanca. They jointly contributed actively and constructively to the success of this initiative. This activity is granted by PID2022-137152NB-I00 funded by MICIU/AEI/10.13039/501100011033 and by ERDF/EU.

Finally, we would like to welcome the attendees and thank them for their interest in the conference. The members of the Organising Committee have put all our effort into offering a program that provides them with an enriching experience not only through new knowledge and professional ties, but we also want them to discover and enjoy our city.



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# ORGANIZING COMMITTEE

## General Chair

Emilio Corchado

University of Salamanca, Spain

## Conferences Chairs

Emilio Corchado

University of Salamanca, Spain

Héctor Quintián

University of A Coruña, Spain

Alicia Troncoso Lora

Pablo de Olavide University, Spain

Hilde Pérez García

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Esteban Jove

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## Organizing Committee

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University of A Coruña, Spain

Esteban Jove

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Agustín García Fisher

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University of Deusto, Spain

Noel Maximino Freire Mahía

University of A Coruña, Spain

Rafael Juan Victoria Cinza

University of A Coruña, Spain

## PLENARY SPEAKERS

### SCHEDULE

Speaker	Room	Date	Time
Prof. Enrique A. de la Cal Marín	Auditorio C	Thursday, 18	11.30 - 12.30
Prof. Michał Woźniak	Auditorio C	Friday, 19	11.30 - 12.30

### Prof. Enrique A. de la Cal Marín



**Prof. Enrique A. de la Cal Marín** is an Associate Professor in the Department of Computer Science at the University of Oviedo, Spain. He received his degree in Computer Engineering in 1995 and his PhD in Computer Science in 2003, both from the University of Oviedo. His research focuses on computational intelligence, machine learning, time-series analysis, intelligent audio analysis, human activity recognition, and biomedical AI applications, with increasing emphasis on speech-, voice-, and sensor-based methods for studying neurodegenerative diseases and related clinical conditions.

His recent work includes wearable-based human activity and fall detection, epilepsy episode recognition using sensor data, stress detection from physiological signals, speech emotion recognition, and voice and speech analysis for clinical assessment. He has also developed active collaborations with the University of Alberta on AI-based speech and language analysis for neurodegenerative disorders, with particular attention to Primary Progressive Aphasia and related conditions.

His scientific output includes more than 30 indexed journal articles and nearly 70 conference contributions, mostly in international venues. His work on fall detection deployment received a Best Paper distinction at the IEEE International Conference on Cloud Computing and Big Data Analysis in 2018. He has participated in national and international research projects and industry-funded R&D contracts, several of them as principal investigator or scientific coordinator, and has served on the scientific committees of numerous international conferences in artificial intelligence and soft computing.



## Prof. Michał Woźniak

**Prof. Michał Woźniak** is currently a professor of computer science at the Department of Systems and Computer Networks, Wrocław University of Science and Technology, Wrocław, Poland, and a member of the Polish Academy of Sciences. He has authored or co-authored more than 350 papers and three books. His research focuses on machine learning, particularly pattern classification, classifier ensembles, continual learning, and methods for handling imbalanced data. Prof. Woźniak has been involved in research projects related to machine learning and has served as a consultant on several commercial projects for well-known Polish companies and the public administration. He also serves as a PC member and has given more than 30 invited lectures at prestigious AI/ML-related conferences. He received numerous prestigious awards for his scientific achievements, including the IBM Smarter Planet Faculty Innovation Award (twice), the IEEE Outstanding Leadership Award, and several best paper awards at major conferences.



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# LOCAL INFORMATION

## Discover Marbella: History, Beaches and Andalusian Charm



Marbella is one of the most emblematic towns on the Costa del Sol. Located between the Mediterranean Sea and the Sierra Blanca mountains, it offers a unique mix of golden beaches, a charming old town and a vibrant, cosmopolitan lifestyle.

From quiet whitewashed streets to a glamorous marina full of yachts, Marbella is a destination where you can relax, enjoy the sun and discover the essence of southern Spain.

## A Short History of Marbella

The area of Marbella has been inhabited since ancient times and has passed through different civilisations, from the Romans to the Moors. Over the centuries, it developed as a small coastal town linked to agriculture and mining, until it transformed into one of the most famous tourist destinations in the Mediterranean.

Today, the historic centre still preserves the traditional Andalusian atmosphere: white houses, narrow cobbled streets, flower-filled balconies and cosy squares full of life.

## What to See and Do in Marbella

### Old Town and Historic Centre



The old town of Marbella is perfect for getting lost without a fixed plan: stop for a coffee, try some tapas on a terrace or simply enjoy the local atmosphere. Plaza de los Naranjos, with its orange trees and terraces, is the heart of the historic centre.



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## Beaches and Seafront Promenade



Marbella offers long sandy beaches where you can sunbathe, swim and enjoy the Mediterranean Sea. Along the seafront promenade, you can walk, cycle, or simply sit on a bench and admire the views. From more family-friendly areas with many services to quieter corners, there is a beach for every type of visitor.

## Puerto Banús and Its Glamour



Puerto Banús is the most glamorous side of Marbella. The marina is famous for its luxury yachts, designer boutiques, luxury cars and lively nightlife.

Whether you come to shop, have dinner with sea views or simply walk around the marina, Puerto Banús is a must-see place during your visit to Marbella.

## Nature, Parks and Relaxing Plans



Marbella is not only about beaches and nightlife. Parks and green areas, such as the Alameda, offer a quieter side of the city, ideal for a peaceful walk in the shade of the trees.

The nearby mountains and viewpoints also invite you to enjoy nature and beautiful views of the coastline. Simple pleasures like an ice cream, a coffee in the sun or a sunset by the sea are part of the everyday charm of Marbella.



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## VENUE

The conference will be held Palacio de congresos de Marbella.



**Calle José Meliá 2  
29602 Marbella (Málaga)  
Spain**



## Rooms

### Auditorio C, Sala 3 and 4



# SOCIAL ACTIVITIES

## WELCOME NETWORKING COCKTAIL

SOCIAL PROGRAM

THURSDAY 18<sup>th</sup>

NETWORKING COCKTAIL

LUNCH



- Restaurante El Sombrero. **14:15 hours**



# STARTUP OLÉ CLOSING & AWARDS CEREMONY

SOCIAL PROGRAM

**THURSDAY 18<sup>th</sup>**

## CLOSING & AWARDS Startup Olé Marbella



- Palacio de Congresos (Auditorio A): **19:30 hours**





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## STARTUP OLÉ MARBELLA PARTY

SOCIAL PROGRAM

**THURSDAY 18<sup>th</sup>**

Startup Olé Cocktail & Party

**DINNER**

- **COROCORO: 20:30 hours**  
Comunidad Alhambra del Mar, 3, 29602 Marbella, Málaga



1526 ESCUELA DE SALAMANCA  
2026 </7/0> V Centenario

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Junta  
de Andalucía

Comunidad de Universidades,  
Investigación e Innovación

## COCKTAIL LUNCH

SOCIAL PROGRAM

FRIDAY 19<sup>th</sup>

NETWORKING COCKTAIL

LUNCH



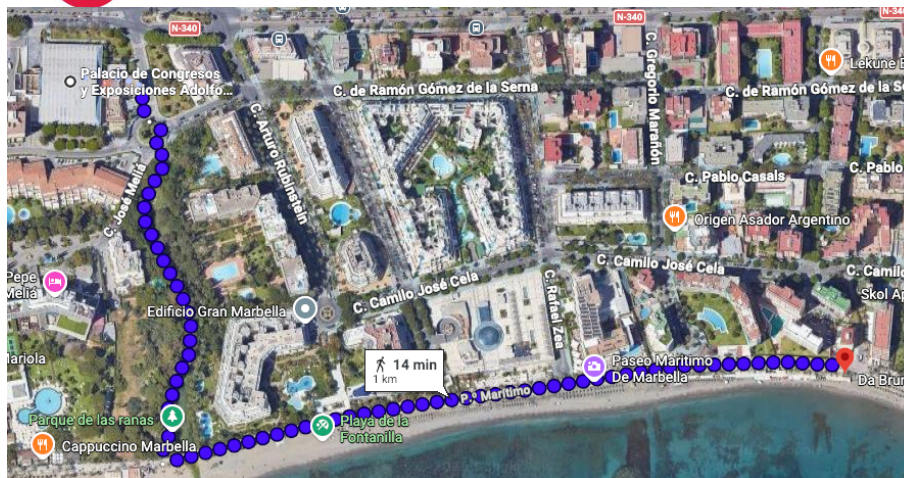
- Restaurante El Sombrero. **14:15 hours**  
Playa La Fontanilla, 8, 29601 Marbella, Málaga



1526 años  
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Escuela de  
SALAMANCA



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## GALA DINNER

SOCIAL PROGRAM

FRIDAY 19<sup>th</sup>

GALA DINNER

Hotel Occidental  
Puerto Banús



- Hotel Occidental Puerto Banús : **21:30 hours**  
Av. Rotary Internacional, s/n, Nueva Andalucía, 29660 Marbella, Málaga



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SALAMANCA

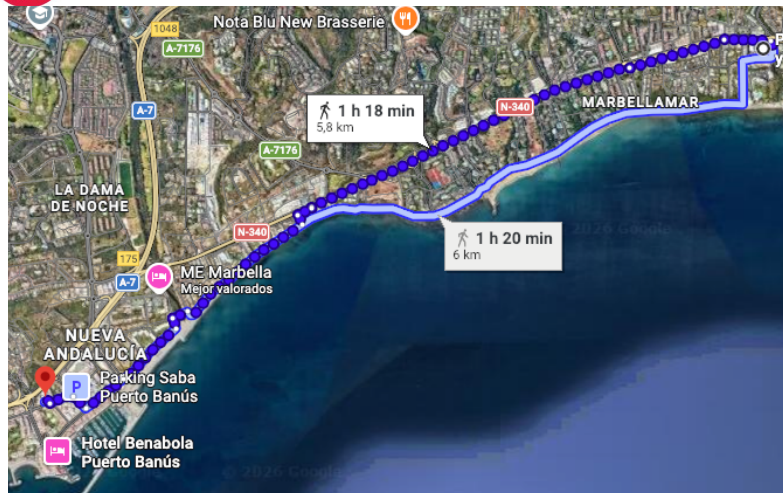
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# USEFUL INFORMATION

## About the venue

### WIFI

NETWORK: STURTUP OLE Expositores

PASSWORD: Marbella26



Escanear para conectarse a Wi-Fi

📶 STURTUP OLE Expositores

🔒 Marbella26

## Useful phone numbers

The international phone number prefix for Spain is +34

Emergency call number (preferred)	112
Police	091
Ambulance	061
Fire brigade	080

Emergency conference contact: **+34 652864324 (Héctor)**



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# SCHEDULE

		Auditorio C	Sala 3	Sala 4			Auditorio C	Sala 3	Sala 4			
<b>17th - WEDNESDAY</b>		<b>18th - THURSDAY</b>			<b>19th - FRIDAY</b>							
<p style="text-align: center;"><b>CONFERENCE ATTENDEES WILL HAVE ACCESS TO THE STARTUP OLE MARBELLA</b></p>		9:00	REGISTRATION (Open all day) Entrance			9:00	REGISTRATION (Open all day) Entrance					
		09:00 - 11:00	H1	S1		09:00 - 11:00	H5	S6	C3 I			
		11:00 - 11:30	COFFEE BREAK (Palacio Entrance)			11:00 - 11:30	COFFEE BREAK (Palacio Entrance)					
		11:30 - 12:30	PLENARY TALK - Prof. Enrique A. de la Cal (AUDITORIUM C)			11:30 - 12:30	PLENARY TALK - Prof. Mihcal Wozniak (AUDITORIUM C)					
		12:30 - 13:30	H2	S2		12:30 - 14:15	H7	S5	C3 II			
		13:30 - 14:15		S3				S7				
		14:15 - 15:30	NETWORKING COCKTAIL - LUNCH Restaurant "El sombrero" Playa La Fontanilla, 8, 29601 Marbella, Málaga			14:15 - 15:30	NETWORKING COCKTAIL - LUNCH Restaurant "El sombrero" Playa La Fontanilla, 8, 29601 Marbella, Málaga					
		15:30 - 17:30	H3	S4 I	C1	15:30 - 17:30	S9	S8	I1			
		17:00 - 19:00	REGISTRATION Entrance		17:30 - 18:00			OPENING HAIS-SOCO-CISIS-ICEUTE (AUDITORIUM C)				
					18:00 - 18:30			COFFEE BREAK (Palacio Entrance)				
18:30 - 19:30	H4				S4 II	C2						
19:30 - 20:30	H6											
		20:30	DINNER: COCKTAIL AND PARTY Restaurant "COROCORO" Comunidad Alhambra del Mar, 3, 29602 Marbella, Málaga			21:30				GALA DINNER Hotel Occidental Puerto Banús Av. Rotary Internacional, s/n, Nueva Andalucía, 29660 Marbella, Málaga		



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**WEDNESDAY**



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## **REGISTRATION**

*Date: 16th -WEDNESDAY, Time: 17:00 - 19:00 Room: Palacio Entrance*





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# THURSDAY



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## **HAIS Session: H1 - Health & Biomedical AI**

*Date: 18th - THURSDAY, Time: 09:00 - 11:00 Room: Auditorio C*

*Chair: Camelia Chira*

### **H1 - Health & Biomedical AI**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0151	A Systematic Analysis of Data Augmentation and Training Parameters for Lightweight CNN-Based Mammographic Lesion Classification	Dragos Trandafir, Madalina Dicu and Camelia Chira
1657	Phase-phase coupling characterization and classification using KAN-based autoencoder	Andrés Ortiz, Nicolás J. Gallego-Molina, Antonio M. Martínez-Heredia, Diego Castillo-Barnes, Ignacio Rodríguez-Rodríguez, Alberto Peinado and Jorge Munilla
2656	Feature Selection for Cognitive Decline Detection Using Machine Learning	Karrar Al-Jammali, Nuria Medina-Medina and Daniel Molina
2843	Early Detection of Neurotoxicity in Neuronal Cultures via Unsupervised Anomaly Detection on MEA Spike Waveforms	Celia Melendi Lavandera, Carlos Fernández Martínez, Fernando Moncada Martins, Angel Rio-Alvarez, Esther Serrano-Pertierra, Víctor Calero, Fernando Abraham Ascencio Salazar, M. Teresa Fernández-Sánchez, Antonello Novelli and Víctor Gonzalez
5595	A Byzantine-Resilient Agentic Framework for Robust Multimodal Subtyping of Non-Hodgkin Lymphoma	Naila Marir, Sara Elsherbini, Manar Mansour, Emad Azmy, Hasan A. Abdel Ghaffar and Passent El-Kafrawy
6627	Subject-Level Classification of Primary Progressive Aphasia from Manually Derived Linguistic Features: Effects of Task Granularity and Variant Sensitivity	Silviu Cociuban, Elena Herrera and Enrique De La Cal Marín

## **SOCO Session: S1 - Computer Vision Applications**

*Date: 18th - THURSDAY, Time: 09:00 - 11:00 Room: Sala 3*

*Chair: José Ramón Villar*

### **S1 - Computer Vision Applications**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
2210	Comparative Evaluation of Computer Vision Models for Fruit Detection	Mencía George, Luis Prieto López, Francisco J Rodríguez Lera and Lidia Sánchez-González
2441	Real-Time Vision-Based Protocol Adherence Classification in TASENS Self-Administered Taste Assessment	Petr Dolezel, Dominik Stursa, Pavel Rozsival and Jan Vodicka
2563	3D Point Cloud Classification of T-Shaped Structural Components for Parts Identification	Paula Arcano-Bea, Anabel Díaz-Labrador, Alejandro Vidal-Bralo and Francisco Zayas-Gato
4956	Analyzing the Impact of Mammographic Projection on Tumor Detection and Classification in Mammograms	Laura Menéndez García, Enol García González, José Ramón Villar, Madalina Dicu and Camelia Chira
5955	Risk-Aware Multispectral U-Net for Semantic Weed Mapping in Precision Agriculture	Laura Cosma, Ștefan Oniga and Ovidiu Cosma

### **COFFEE BREAK**

*Date: 18th - THURSDAY, Time: 11:00 - 11:30      Room: Palacio Entrance*

### **PLENARY TALK**

*Date: 18th - THURSDAY, Time: 11:30 – 12:00      Room: Auditorio C*

*Plenary: Prof. Enrique A. de la Cal*



### **HAIS Session: H2 - Applied AI: Food, Water & Resources**

*Date: 18th - THURSDAY, Time: 12:30 - 14:15      Room: Auditorio C*

*Chair: Dragan Scimic*

#### **H2 - Applied AI: Food, Water & Resources**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
5731	Enhancing the Discriminative Quality of Dairy Cattle Monitoring Data through Feature Engineering	Manuel Rubiños, Álvaro Michelena, Antonio Díaz-Longueira, Míriam Timiraos and Alejandro Vidal-Bralo
0208	Autonomous Soil Nutrient Mapping System: Integrating NIR Spectroscopy with a SCARA-Manipulator on a Summit-XL Rover	Jesus Fernandez-Fernandez and Lidia Sánchez-González
0392	Robust Plant Disease Diagnosis Using Multi-Agent Systems	Mario Campos Mocholí, Jaume Jordán, Víctor Sánchez Anguix, Juan Miguel Alberola, Vicent Botti and Vicente Julian
2780	Gaussian Mixture Models for Identifying Ultra-Processed Foods	Joshua Strickland, Murray Dare and Wenjia Wang
2881	Variability of Water Consumption Patterns: Assessing User Membership Stability via PCA and K-Means	Alejandro Vidal-Bralo, Paula Arcano-Bea, Álvaro Michelena, Manuel Rubiños and Héctor Quintián
7146	Hybrid Integration of CNN, Spectral, Structural, and Attention Mechanisms for Vegetation-Soil Segmentation in Agricultural Images	Esther Gascó, Clara I. López-González, Eva Besada-Portas and Gonzalo Pajares



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### **SOCO Session: S2 - Prediction and Monitoring**

*Date: 18th - THURSDAY, Time: 12:30 - 13:30 Room: Sala 3*

*Chair: Javier Díez*

#### **S2 - Prediction and Monitoring**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0692	Anomaly Detection under Closed-Loop Fault Masking: A Case Study Comparing One-Class and Supervised Approaches on a Two-Tank Level Control System	Pedro Pablo Gómez González, Agustín García-Fischer, Noel Freire-Mahía, Álvaro Michelena, Esteban Jove and Jose Luis Calvo-Rolle
2191	Experimentally Driven Ensemble Learning for Predicting Ball-Screw Positioning Errors	Javier Villoria-Ugidos, Iván Sánchez-Calleja, Alberto Martínez-Gutiérrez, Rubén Ferrero-Guillén and Javier Díez-González
6455	A Dynamic Threshold-Based Approach for Trend Classification in Urban Parking	Cristian S. Borgoñoz, Juan M. Alberola, Victor Sanchez-Anguix, Vicent Botti and Vicente Julian
7122	Dimensionality Reduction Approaches for Enhanced Anomaly Detection in Cattle Behavioral Monitoring	Manuel Rubiños, Álvaro Michelena, Antonio Díaz-Longueira, Míriam Timiraos and Héctor Quintián

### **SOCO Session: S3 - Systems and Optimization**

*Date: 18th - THURSDAY, Time: 13:30 - 14:15 Room: Sala 3*

*Chair: Javier Díez*

#### **S3 - Systems and Optimization**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
3553	Weighted Multiset Reaction Systems	Victor Mitrana, Andrei Paun and Mihaela Paun
3616	Empowering the Unitree Go2 Pro for Elderly Care via WebRTC	Anabel Díaz-Labrador, Paula Arcano-Bea, Ángel Delgado, Héctor J. Pérez Iglesias, Oscar Fontenla-Romero and Jose Luis Calvo-Rolle
3739	Motzkin Neighborhood Evaluation in Iterated Local Search and Simulated Annealing for the Permutational Flow Shop Problem	Remigiusz Wojewódzki and Wojciech Bożejko
8705	Integrating 5G MEC in Production: Architecture-Driven Configuration and Deployment Artefacts	Álvaro Castellanos-Andrés, Diego Narciandi-Rodríguez, Jose Avelaira-Mata, Isaias Garcia-Rodríguez and Ramón Ángel Fernández-Díaz

### NETWORKING COCKTAIL - LUNCH

*Date: 18th - THURSDAY, Time: 14:15 - 15:30*

*Restaurante El Sombrero*

*Playa La Fontanilla, 8, 29601 Marbella, Málaga*



### HAIS Session: H3 - Vision, Robotics & Inspection

*Date: 18th - THURSDAY, Time: 15:30 - 17:30 Room: Auditorio C*

*Chair: Dragan Scimic*

#### H3 - Vision, Robotics & Inspection

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0943	Convolutional Autoencoders Based Unsupervised Detection for Overshoot Cutting Defects on Shipbuilding Base Plates	Paula Arcano-Bea, Anabel Díaz-Labrador, Alejandro Vidal-Bralo, Francisco Zayas-Gato, Héctor Quintián
1601	Evaluating Off-the-Shelf Semantic Segmentation for Quadruped Navigation via Pseudo-Ground Truth	Anabel Díaz-Labrador, Paula Arcano-Bea, Ángel Delgado, Héctor José Pérez-Iglesias, Oscar Fontenla-Romero and Jose Luis Calvo-Rolle
3898	Occlusion-Aware Bird's-Eye-View Semantic Segmentation for Surround-View Fisheye Cameras	Ngo Van Tuan Anh, Nguyen Huu Thai Minh, Nguyen Tuan Hao, Vo Nguyen Hung Anh and Phan Duy Hung
4295	Human-Related Acoustic Event Classification under Real Background Interference: The Role of Controlled Acoustic Dataset Generation	Daniel Castaño, Mirko Fañez Kertelj, Javier Sedano, Juan Luis Carus Candas, Jairo Ramírez Ávila and Enrique De La Cal Marín
9795	On the Automatic Visual Inspection for Defects Detection in Injection Molding Processes	Iván Sánchez-Calleja, Alberto Martínez-Gutiérrez, Rubén Ferrero-Guillén, Javier Díez-González, António Gaspar-Cunha and Hilde Pérez García



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## **SOCO Session: S4 I - Special Session: Efficiency and Explainability in Machine Learning and Soft Computing**

*Date: 18th - THURSDAY, Time: 15:30 - 17:30 Room: Sala 3*

*Chair: María del Martínez Ballesteros and Manuel Jesús Jiménez Navarro*

### **S4 I - Special Session: Efficiency and Explainability in Machine Learning and Soft Computing**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0318	Interpretable multilevel analysis of wind turbine operation data via a recursive unsupervised and LLM-assisted framework	José Enrique Sánchez López, Manuel Carranza García, Ana Rodríguez López and José C. Riquelme
0324	An Explainable Framework for Football Match Outcome Analysis Using Event-Based Data	Jaime Linares Barrera, Manuel Jesús Jiménez Navarro and María Martínez Ballesteros
0395	Deep Learning for Histopathological Lung Cancer Detection: A CNN Comparison	Dayana Murillo-Guanuchy, Salomé Verdugo, Angie Inga, Kevin Landázuri, Lenin Ramírez-Cando, Diego Almeida-Galárraga, Luis Zhinin-Vera, Vladimir Bonilla, Cesar Guevara and Fernando Villalba-Meneses
0685	Hybrid AI-OR Framework for Prescriptive Optimization in Energy-Intensive Steelmaking	Cristina Tobar-Fernández, Dayrelis Mena-Torres, Luis García Marin, Adolfo García González and Francisco García Flores
1422	Memory optimization of IVF indices for RAG systems using FP8 centroid quantization	Naamán Huerga-Pérez, Rubén Álvarez, Álvaro Sánchez-Fernández and Javier Díez-González
1676	Empirical Evaluation of Prompt Sensitivity and Optimization in Alzheimer Disease Speech Classification	Imaan Shahid, Seyedamin Pouriyeh, Yixin Xie, Alessandro Santopaolo, Salvatore Giugliano and Giovanna Sannino
2453	Preliminary Digital Assessment of Bulbar Function in ALS: an Exploratory Analysis of Parsimonious and Speech Features	Salvatore Giugliano, Tabea Thies, Elisa Mallick, Johannes Tröger, Myriam Spisto, Raffaele Dubbioso and Giovanna Sannino

## **CISIS Session: C1 - Hybrid Security Analytics**

*Date: 18th - THURSDAY, Time: 15:30-17:30 Room: Sala 4*

*Chair: Darius Galis*

### **C1 - Hybrid Security Analytics**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
4332	Blink-and-You'll-Miss-It: Micro-Expressions as a Deepfake Detection Add-On	Andreea Brad and Ciprian Pungila
7350	Rethinking Synthetic Oversampling for Intrusion Detection: When Similarity Hurts Performance	Maximilian Wolf, Dieter Landes, Andreas Hotho and Daniel Schlör
7817	Deep Sets for Network Flow Anomaly Detection under a Multiple Instance Learning Framework	Alberto Miguel-Diez, Adrián Campazas-Vega, Claudia Álvarez-Aparicio, David Sobrín-Hidalgo and Ángel Manuel Guerrero-Higueras



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8326	Explainable Mixer-Like Behavior Detection in Bitcoin via Transaction-Level Heuristics	Rebeca Tonu and Ciprian Pungila
9919	Unsupervised Temporal Analysis of Bitcoin Transaction Networks Using Topological Drift	Otilia Muntean, Ciprian Pungilă and Viorel Negru

### **OPENING HAIS-SOCO-CISIS-ICEUTE**

*Date: 18th - THURSDAY, Time: 17:30 – 18:00      Room: Auditorio C*

*Chair: Emilio Corchado*



### **COFFEE BREAK**

*Date: 18th - THURSDAY, Time: 18:00 - 18:30      Room: Palacio Entrance*

### **HAIS Session: H4 - LLMs, RAG & Agents**

*Date: 18th - THURSDAY, Time: 18:30-19:30      Room: Auditorio C*

*Chair: Petrica Pop*

#### **H4 - LLMs, RAG & Agents**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
1974	Large Language Model-based Automatic Knowledge Graph Enrichment	Marat Sabitov, Maria Khodorchenko, Aleksandr Maksimov and Nikolay Butakov
5358	Memory Mining for LLM Agents: Dynamic Topic-Aware Retrieval of User Fact Records	Andrei Trofimov, Nikolay Butakov, Aleksandr Maksimov and Maria Khodorchenko
7042	Hybrid Tri-Layer Framework for Robust AI-Generated Text Detection in Spanish	Hugo Sanjurjo-González and Pablo García Bringas
9588	SmartBrew Advisor: A Hybrid Conversational Recommender System for Brewing Product Guidance	Cristian Pascan, Mara Macelaru and Petrica Pop



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## **HAIS Session: H6 - Hybrid Industrial & Energy AI**

*Date: 18th - THURSDAY, Time: 19:30-20:30 Room: Auditorio C*

*Chair: Petrica Pop*

### **H6 - Hybrid Industrial & Energy AI**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
2169	Hybrid Preprocessing and Machine Learning for Wind Power Prediction in Small-Scale Wind Systems	Míriam Timiraos, Antonio Díaz-Logueira, Manuel Rubiños, Roberto Casado-Vara, José-Luis Casteleiro-Roca and Álvaro Michelena
5119	Automatic Classification of Battery Operating Regimes Using Hidden Markov Models and Voltage Data	Noel Freire-Mahía, Agustín García-Fisher, Pedro Pablo Gómez-González, Rafael-Juan Victoria, Francisco Zayas-Gato and Esteban Jove
7430	A hybrid model for predicting petroleum coke quality based on feedstock composition and process parameters	Vladimir Bukhtoyarov, Oleg Kolenchukov, Alexey Gorodov, Natalia Shepeta, Vadim Tynchenko, Ivan Nekrasov and Artyom Mikhaylov
8890	An Explainable Hybrid Framework for Process Fault Diagnosis	Pedro-Pablo Gómez-González, Agustín García-Fischer, Noel Freire-Mahía, Álvaro Michelena, Esteban Jove and Jose Luis Calvo-Rolle

## **SOCO Session: S4 II - Special Session: Efficiency and Explainability in Machine Learning and Soft Computing**

*Date: 18th - THURSDAY, Time: 18:30 - 20:30 Room: Sala 3*

*Chair: María del Martínez Ballesteros and Manuel Jesús Jiménez Navarro*

### **S4 II - Special Session: Efficiency and Explainability in Machine Learning and Soft Computing**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
2651	A Comparative Study of Energy Prediction in ANN Using Machine Learning Regressors	Violeta Clar, Fernando Boto, Ane Pradera, Carlos Quesada and Iker Pastor
4562	A Holistic Tool for AI Explainability (XAI) in Data Platforms	Ferdinando Carbone, Paolo Fosci, Matteo Leo, Andrea Marmorato, Giuseppe Psaila and Giampiero Rosa
4605	A SHAP-based Framework for Identifying Critical Energy Parameters in Injection Molding Cycles: A Real-World Data Case Study	Víctor Pinheiro-García, Iván Sánchez-Calleja, Jesús Pérez-González, Alberto Martínez-Gutiérrez, Rubén Ferrero Guillén and Javier Díez-González
5432	Epileptic Seizure Detection in Imbalanced Large-Scale EEG Data: A Machine Learning Approach with Explainability Analysis	Aitor Rodríguez Dueñas, Iana Miranda Caramé, Manuel Jesús Jiménez Navarro and María del Mar Martínez Ballesteros
5477	Diagnosis of Pneumonia with Neural Networks Using a Database of Chest X-ray Medical Images	Paola Cerón, Danna Garcés, Adrián Murillo, María José Flores, Kevin Landázuri, Lenin Ramírez-Cando, Diego Almeida, Luis Zhinin-Vera, Vladimir Bonilla, Cesar Guevara and Fernando Villalba-Meneses



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7588	Explainable analysis of fake Instagram account detection using graph and behavioral features	Iana Miranda Caramé, Aitor Rodríguez Dueñas, Manuel Jesús Jiménez Navarro and María Martínez-Ballesteros
9428	Market Regime Forecasting Across Horizons: When Transition Detection Matters More Than Accuracy	Álvaro Sánchez-Fernández, Hilde Perez, Naamán Huerga-Pérez and Javier Díez-González

## **CISIS Session: C2 - Secure AI, Cryptography & Software Assurance**

*Date: 18th - THURSDAY, Time: 18:30-20:30 Room: Sala 4*

*Chair: Darius Galis*

### **C2 - Secure AI, Cryptography & Software Assurance**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
4582	Securing LLM Agents in Production: Threat Models, Defenses, and Operational Trade-Offs	Nestor Torres Diaz, Marcos Rodríguez Vega, María Candelaria Hernandez-Goya and Pino Caballero Gil
5899	Towards Post-Quantum Security: An Architecture Proposal for Securing Cyber-Physical Systems Telemetry	Alexia del Carmen Casado González, David Sobrín Hidalgo, Claudia Álvarez Aparicio, Adrián Campazas Vega, Ángel Manuel Guerrero Higuera and Vicente Matellán Olivera
7178	Analysis and Comparison of Fully Homomorphic Encryption Approaches over Integers	Cansu Bozkurt, Murat Cenk and Oğuz Yayla
8870	Tailored Limb Counts, Faster Arithmetic: Improved TMVP Decompositions for Curve5453 and Curve6071	Murat Cenk, N. Gamze Orhon Kılıç, Halil Kemal Taskin and Oğuz Yayla
9503	Guarding Pointer Arithmetic in LLVM IR: A Lightweight Static Analysis Pass	Erwin Kirchner and Ciprian Pungila

### **DINNER: COCKTAIL AND PARTY**

*Date: 18th - THURSDAY, Time: 20:30*

*Restaurant "COROCORO"*

*Comunidad Albambra del Mar, 3, 29602 Marbella, Málaga*





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## **HAIS Session: H5 - Hybrid Optimization & Planning**

*Date: 19th - FRIDAY, Time: 09:00 - 11:00*

*Room: Auditorio C*

*Chair: Petrica Pop*

### **H5 - Hybrid Optimization & Planning**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
1336	An Efficient Rainbow based Memetic Algorithm to the Linear Fixed Cost Transportation Problem	Rares Chiuzbaian, Adrian Petrovan, Petrica Pop and Cosmin Sabo
3227	A Hybrid Nearest Neighbor Approach with Crossover Operators for Traveling Salesman Problem	Dragan Simic, Zorana Banković, Marko Veličković, Svetislav D. Simić and Svetlana Simić
3903	NSGA-II Multi-Objective Optimization of Plastic Injection Molding Parameters Supported by Surrogate Models	Jesús Pérez-González, Victor Pinheiro-García, Andrea Fernández-Gorgojo, Rubén Ferrero-Guillén, Alberto Martínez-Gutiérrez and Javier Díez-González
4098	Hybrid residential photovoltaic power plant scheduling method based on demand and generation forecasting	Pawel Parczyk and Robert Burduk
5189	Anticipatory Dispatch and Repositioning for On-Demand Food Delivery	Farid Fleifel, Juan M. Alberola, Victor Sanchez-Anguix and Vicente Vidal
5786	Network Architecture Search: a comparison study	María Gutiérrez, Enol García González, José Ramón Villar and Javier Sedano
8852	Imitation learning via deep Q-learning for multi-robot path planning	Anikó Kopacz, Enol García González, Camelia Chira and José Ramón Villar

## **SOCO Session: S6 - Special Session: Quantum Computing**

*Date: 19th - FRIDAY, Time: 09:00 - 11:00*

*Room: Sala 3*

*Chair: Francisco Martínez Álvarez*

### **S6 - Special Session: Quantum Computing**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0204	Hybrid Quantum-Classical Learning for Photovoltaic Power Nowcasting Using Variational Quantum Circuits and Gradient Boosting	Aramchehr Zare, Michela Longo and Dario Zaninelli
1075	Calibration-Aware Bit-Flip Averaging for Quantum Error Mitigation	Damian Choptiany
3352	Gate Value Quantification for Efficient Quantum Machine Learning Circuits	Francesc Rodríguez Díaz, David Gutiérrez Avilés, Alicia Troncoso and Francisco Martínez Álvarez
6088	Solving capacitated vehicle routing problem with equal demand using Quantum Approximate Optimization Algorithm on Superconducting Quantum Computer	Miłosz Białczak, Dominik Nikrewicz and Mariusz Uchroński
7520	Quantum Circuit Depth and Penalty Parameters in QAOA: A COBYLA Convergence Study on the Multi-Dimensional Knapsack Problem	Igor Dudkiewicz



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9598

Mitigating Catastrophic Forgetting in Quantum Neural Networks via Hybrid Topologies and Dark Experience Replay

Daniel Martín-Pérez, Francesc Rodríguez-Díaz, Alicia Troncoso and Francisco Martínez-Álvarez

**CISIS Session: C3 I -Special Session: Artificial Intelligence for Protecting the Internet of Things (AIP-IoT)**

*Date: 19th - FRIDAY, Time: 09:00 - 11:00*

*Room: Sala 4*

*Chairs: Diego Granados López*

**C3 I -Special Session: Artificial Intelligence for Protecting the Internet of Things (AIP-IoT)**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0762	Explainable ANFIS-Based DDoS Detection for Edge IIoT	Malena Pérez Sevilla, Félix de Miguel Villalba, Álvaro Herrero Cosío, Daniel Urda Muñoz and Jaime Andrés Rincón Arango
2969	Cybersecurity Audit of the Unitree Go2 Quadruped Robot	Luis Prieto-López, Sergio Sánchez de la Fuente, Francisco Carrera-Martínez, Francisco J Rodríguez Lera and Lidia Sánchez-González
3229	Real-time identification and evaluation of DoS attacks for embedded systems	Sara Abejón, Félix de Miguel, Álvaro Herrero, Daniel Urda and Jaime Andrés Rincón
4331	A Hybrid Forensic Investigation Framework: Mobile Malware, Memory Threats, and Deepfake Detection	Daniel-Ioan Coțolan and Darius Galis
6442	Comparison of Temporal Flow Aggregation Strategies for Transformer-Based Network Intrusion Detection	Sergio Martin-Reizabal, Adrián Caballero-Quiroga, Nuño Basurto and Ruben Ruiz-Gonzalez
6602	Vulnerability Assessment of IoT Ecosystems: A Case Study on Replay Attacks in Wi-Fi Enabled Smart Actuators	Ignacio David Moreno Perez, Carlos Cambra Baseca and Roberto Carlos Casado Vera
7352	Framework Design for Privacy Preserving Machine Learning in a 6G Vehicular Network	Alper Umut Uçar and Oğuz Yayla

**COFFEE BREAK**

*Date: 19th - FRIDAY, Time: 11:00 - 11:30*

*Room: Palacio Entrance*

### PLENARY TALK

*Date: 19th - FRIDAY, Time: 11:30 – 12:00 Room: Auditorio C*

*Plenary: Prof. Michał Woźniak*



### HAIS Session: H7 - Interpretable & Robust ML

*Date: 19th - FRIDAY, Time: 12:30 - 14:15 Room: Auditorio C*

*Chair: Sung-Bae Cho*

#### **H7 - Interpretable & Robust ML**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
3055	Searching for Interpretable Multilayer Perceptrons Using a Structural-Behavioural Interpretability Metric	Francisco Javier Martinez-de-Pison, Alpha Pernia-Espinoza and Jose Divasón
3451	Incremental Explanatory Variable Enrichment for Interpretable Clustering Models	Dani Marchuet, Javi Palanca and Vicent Botti
5164	A Variational Quantum Classifier Applied to Romanian Financial Data: Insights into Energy–Pharmaceutical Sector Relations	Sebastian Soptelea, Petru Kallay, Mihoc Tudor, and Rodica Ioana Lung
6256	Cascaded Bias Mitigation with Multi-objective Bayesian Optimization for Credit Scoring	Junyoung Cho, Jaeil Park and Sung-Bae Cho
6283	Feature Imaging via Mutual Information for CNN-Based IoT Intrusion Detection on NF-UNSW-NB15-v3	Álvaro Francisco Villar Val, Diego Granados Lopez, Ángel Arroyo and Álvaro Herrero
9522	Active Learning and Self-Labeling in Low-Budget Annotation	Maria Fabijan and Michał Woźniak



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## **SOCO Session: S5 - Special Session: Time Series Forecasting in Industrial and Environmental Applications**

*Date: 19th - FRIDAY, Time: 12:30 - 13:30*

*Room: Sala 3*

*Chair: Francesc Rodríguez Díaz*

### **S5 - Special Session: Time Series Forecasting in Industrial and Environmental Applications**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
9221	Comparative Analysis of Machine Learning Models for Voltage-Only Battery Operating Regime Classification	Noel Freire-Mahía, Agustín García-Fischer, Pedro Pablo Gómez González, Francisco Zayas-Gato and Esteban Jove
3947	LSTM modelling of long-term effects in forecasting solid waste in the Campo de Gibraltar (Spain)	Marta Pelayo Siles, Lady Juliette Muñoz Rojas, Antonio Rodríguez Maestre, Jose Manuel Alcántara Pérez, María Gema Carrasco García, Francisco Javier Gonzalez Enrique, Juan Jesús Ruiz Aguilar and Ignacio José Turias Domínguez
6238	Temporal Fusion Transformers for energy generation forecasting in Energy Communities	María Teresa Ordas, José Carlos González, Angel Marcos Trujillo Trujillo, Alberto Hamilton Castro and Juan Albino Méndez Pérez
8863	Deep Learning vs. Gradient Boosting for SO2 Forecasting: Evaluating Tree Ensembles and Residual LSTM Architectures in Industrial Environments	Javier González-Enrique, María Gema Carrasco García, Juan Jesús Ruiz Aguilar, Paloma Rocío Cubillas Fernández and Ignacio José Turias Domínguez

## **SOCO Session: S7 - Special Session: Intelligent Techniques Applied to Modelling and Control in Engineering focused on Marine Energy Systems and Robotics**

*Date: 19th - FRIDAY, Time: 13:30 - 14:15*

*Room: Sala 3*

*Chair: Mario Peñacoba*

### **S7 - Special Session: Intelligent Techniques Applied to Modelling and Control in Engineering focused on Marine Energy Systems and Robotics**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
3767	Neural-Network-Based Prediction of Machine Failures in Manufacturing: An Enterprise Case Study	Kamil Musiał and Milena Stachurska
4152	An Adaptive Fuzzy Logic-Based Yaw Control Strategy for Floating Offshore Wind Turbines Under Turbulent Conditions	Roberto Diaz-Barrio, Jesús Enrique Sierra-García and Matilde Santos
8276	Hybrid AR-Conv-Transformer Model and Ensembles for Active Power Prediction in Wind Turbines	Pablo-Andrés Buestán-Andrade, Matilde Santos, Jesús-Enrique Sierra-García and Nathalia-Michelle Peralta-Vásconez
9436	Genetic Algorithm-Based Optimization of Execution Time and Grasping Force in Cooperative Bimanual Robot Trajectories	Mario Peñacoba-Yagüe, Jesús-Enrique Sierra-García and Matilde Santos Peñas



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## **CISIS Session: C3 II -Special Session: Artificial Intelligence for Protecting the Internet of Things (AIP-IoT)**

*Date: 19th - FRIDAY, Time: 12:30 - 14:15*

*Room: Sala 4*

*Chairs: Nuño Basurto*

### **C3 II -Special Session: Artificial Intelligence for Protecting the Internet of Things (AIP-IoT)**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
7533	Machine Learning Validation of a Flow-Based IoT Cyberattack Dataset	Branly Martínez, Félix de Miguel, Nuria Velasco, Jaime Rincón and Daniel Urda
7790	Identification of relevant digital forensic traces using time window aggregation and hierarchical clustering	Martin Bača, Sophia Petra Křišáková and Pavol Sokol
8430	Cross-Dataset Generalization of Random Forest Classification Models for IoT Network Traffic Attack Detection	Adrián Caballero-Quiroga, Cesar Rodriguez-Viallagra, Nuño Basurto and Ruben Ruiz-Gonzalez
8904	Mixed-Traffic IoT Windows as Flow Sequences: A Transformer-Based Multi-Label IDS	Sergio Martin-Reizabal, Cesar Rodriguez-Villagra, Ruben Ruiz-Gonzalez and Nuño Basurto
9446	Anomaly Detection Through Quantum Annealing-Driven Feature Selection	Diego Granados-Lopez, Anita Krupskaja Herrera-Vaca, Ángel Arroyo and Álvaro Herrero
9629	Autonomous Edge Cybersecurity: LLM-Guided Q-Learning for Resilient Device Control	Dewins Murillo, Ángel Arroyo, Anita Herrera and Álvaro Herrero

### **NETWORKING COCKTAIL - LUNCH**

*Date: 19th - FRIDAY, Time: 14:15 - 15:30*

*Restaurante El Sombrero*

*Playa La Fontanilla, 8, 29601 Marbella, Málaga*





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## **SOCO Session: S9 - Special Session: Optimization, Modeling and Control by Soft Computing Techniques**

*Date: 19th - FRIDAY, Time: 15:30 - 17:30*

*Room: Auditorio C*

*Chair: Juan Jose Gude*

### **S9 - Special Session: Optimization, Modeling and Control by Soft Computing Techniques**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
0027	Swarm Intelligence-Based Fractional System Identification on Programmable Logic Controllers for Industrial Applications	David Zamora-Arranz, Juan J. Gude, Pablo Garcia-Bringas and Javier Del Ser
0571	On the influence of motion in UWB localization methods: A comparative analysis in Industrial Scenarios	Rubén Ferrero-Guillén, Javier Díez-González, Alberto Martínez-Gutiérrez, Javier Villoria-Ugidos, Adriano Moreira and Hilde Perez
1663	FHOPDT-Based Fractional-Order System Identification via PSO and GWO: A Comparative Study	Abdelhakim Idir, Juan J. Gude and Oscar Camacho
8799	Enhanced Grey Wolf Optimization for Hybrid Time-Frequency Identification of Fractional-Order Process Models	Abdelhakim Idir, Juan J. Gude and Oscar Camacho

## **SOCO Session: S8 - Special Session: Machine Learning and Computer Vision in Industry 4.0**

*Date: 19th - FRIDAY, Time: 15:30 - 17:30*

*Room: Sala 3*

*Chair: Jose Garcia Rodriguez*

### **S8 - Special Session: Machine Learning and Computer Vision in Industry 4.0**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
1887	Thermal Anomaly Detection in Municipal Solid Waste Landfills using CNNs	Paloma Rocío Cubillas Fernández, Jose Manuel Alcántara Pérez, María Gema Carrasco García, Javier González Enrique, Juan Jesús Ruiz Aguilar and Ignacio Turias Domínguez
1924	Detection for Robotic Depalletizing of Interlacing Bricks Using YOLO26-OB	Dominik Štursa, Petr Doležel, Vítek Rais, Daniel Honc and Tomas Novak
3673	Prediction of Optimal Locations for 5G Base Stations in Satellite Image using U-Net++ with CBAM Attention and Monocular Elevation Estimation	Iván García-Aguilar, Jesús Galeano-Brajones, Francisco Luna-Valero, Javier Carmona-Murillo and Rafael M. Luque-Baena
4061	X-MAIN: eXtended Reality for Maintenance and Inspection Training	David Mulero-Pérez, Beatriz Zambrano-Serrano, Enrique Ruiz Zúñiga, David Martin-Cabezudo, Jose Garcia-Cordoba and Jose Garcia Rodriguez
4084	YOLO-MSLesSeg: Automated Multiple Sclerosis Lesion Segmentation in MRI with Image Enhancement Techniques	Ariadna Jiménez Partinen, Sebastián Rozenblum, Mario Pascual González, María Paulina Ordóñez-Walkowiak, Víctor Guirado-Ororio and Miguel A. Molina-Cabello
4166	Automated Multi-Protocol Assessment for Mild Cognitive Impairment Using a Mobile Health Application	David Alarcon-Garrido, David Ortiz-Perez, David Mulero-Pérez, Laura Saval-Cillero, Jose Garcia-Rodriguez and M. Flores Vizcaya-Moreno



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6152	A Multimodal Signal Fusion Framework for Continuous Fatigue Estimation in Human-Centric Environments	David Alfaro, Mauricio Zamora, Michael Alejandro Fernandez-Vega, David Ortiz-Perez, Jose Garcia Rodriguez and Jorge Azorin-Lopez
7388	Protecting the Vulnerable: Leveraging GANs and Depth Maps for Cognitive Decline Scenarios	Jose Burgos-Miras, Ester Martinez-Martin and Jose Garcia-Rodriguez
8484	Beyond Silence Stripping: Robust Whisper-Based ASR for Dementia Speech	Gonzalo Ramos-Sanchez, David Ortiz-Perez, Alexandra Psarrou and Jose Garcia-Rodriguez

### **Session: I1 - Special Session: EUropean Transnational Educational**

*Date: 19th - FRIDAY, Time: 15:30 - 17:30*

*Room: Sala 4*

*Chairs: Carlos Cambra*

### **I1 - Special Session: EUropean Transnational Educational**

<b>Id paper</b>	<b>TITLE</b>	<b>Authors</b>
1381	LLM-Assisted Grading of Fundamental Python Programming Exercises via In-Context Learning	José E. Sánchez-López, Pablo Reina-Jiménez, Manuel Carranza-García and Belén Vega-Márquez
2649	Awareness of Home IoT Cybersecurity: A Transnational Study of University Students	Beatriz Gil-Arroyo, Clara Cotillas, Felix de Miguel, Leticia Curiel, Carlos Cambra and Álvaro Herrero
5163	Enhancing Musical Recognition through Immersive Virtual Reality	Alberto Martínez Gutiérrez, Pablo Alonso-Diez, Alejandro Rodríguez-García, Rubén Ferrero Guillén, Iván Sánchez-Calleja, Madalena Araújo and Javier Díez-González
9209	Analysis of the evolution of the number of registered careers in higher education in Paraguay	Perla Sosa de Wood, Viviana Elizabeth Jiménez Chaves and Andrea Paola Riego Esteche

### **GALA DINER**

*Date: 19th - FRIDAY, Time: 21:30*

*Hotel Occidental Puerto Banús*

*Av. Rotary Internacional, s/n, Nueva Andalucía, 29660 Marbella, Málaga*



