



# José Miguel Aragón Jurado

PhD Candidate in Computer Science | National FPU Fellow | Age: 26

GOAL Research Group – <https://tic259.uca.es/>

Department of Computer Engineering, University of Cadiz, Spain

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Languages: Spanish (native), English (C1+ equivalent), Japanese (basic familiarity)

*PhD candidate in Computer Science and National FPU Fellow at the University of Cádiz, Spain. My research focuses on green software optimization, artificial intelligence, and sustainable computing, with applications in video games and IoT systems. I have authored 8 peer-reviewed journal articles (Q1/Q2) and over 10 international conference papers, including CORE A/A\* venues. Currently, 3 additional journal papers are under review in high-impact venues (IEEE, Elsevier). My academic background is further strengthened by international research stays and collaborations in Japan (Ritsumeikan University and Osaka Metropolitan University) and Canada (University of Alberta), which have resulted in joint publications.*

## WORK EXPERIENCE

### PREDOCTORAL RESEARCHER (FPU FELLOW)

University of Cadiz

**Cadiz, Spain**

January 2023–Present

- Conducting a PhD thesis titled "Software Optimization for the Green Internet of Things".
- Developed and benchmarked multi-objective metaheuristics (Genetic Algorithms, Cooperative Co-evolution, NSGA-II) to reduce energy consumption and execution time.
- Applied LLVM compiler infrastructure for source code transformation and optimization in C, C++, Objective-C, and Swift.
- Designed green-aware optimization pipelines for video game engines and mobile applications, validated through empirical experiments on real-world systems (iOS and Steam Deck).
- Authored and co-authored 8 peer-reviewed journal papers (Q1/Q2) and over 10 international conference papers (including CORE A/A\*); additionally, 3 journal articles currently under review at high-impact venues (IEEE, Elsevier).
- Conducted collaborative research during two international research stays (Canada and Japan), leading to co-authored papers under review at top-tier venues (IEEE, Elsevier).

**Cadiz, Spain**

November 2021–September 2022

### GRADUATE RESEARCHER

University of Cadiz

- Analyzed energy consumption data for plug-in hybrid buses and developed predictive regression models.
- Conducted data processing, enrichment, and imputation, including treatment of data uncertainty.
- Optimized operational strategies and validated simulators and predictive tools developed during the project.

## EDUCATION

### UNIVERSITY OF CADIZ

PhD in Computer Science

Expected Completion: July 2025

**Cadiz, Spain**

November 2022–Present

## UNIVERSITY OF CADIZ

Master of Research in Systems and Computer Engineering

Specialization in Big Data

GPA: 9.26/10

- Master's thesis awarded 10/10 (with distinction)
- Awarded the Extraordinary Master's Degree Award for best academic performance.
- Received five distinctions for academic excellence.

Cadiz, Spain

October 2021–September 2022

## UNIVERSITY OF CADIZ

Bachelor of Science in Computer Engineering

Specialization in Computer Science

GPA: 8.73/10

- Bachelor's thesis graded 10/10 (with distinction)
- Received eight academic honors.
- Student Research Assistant. November 2018 – September 2020

Cadiz, Spain

September 2017–July 2021

## PUBLICATIONS

### JOURNAL PAPERS

**J8.** Díaz-Jiménez M.; **Aragón-Jurado J. M.**; Dorronsoro B.; Pavón-Domínguez P.; Seredynski M.; Ruiz P. 2025. *Optimization of Urban Public Transport System Sustainability using Plugin Hybrid Buses for Tailored Emissions Mapping*. Engineering Applications of Artificial Intelligence. Elsevier. 157. 111179. DOI: <https://doi.org/10.1016/j.engappai.2025.111179> (IF 7.5, CiteScore 9.6, Q1, 2025)

**J7.** **Aragón-Jurado J. M.**; Ruiz P.; Dorronsoro B.; Thawonmas R. 2025. *Green Gaming: Automated Energy Consumption Reduction for Doom Engine*. IEEE Consumer Electronics Magazine. IEEE. DOI: <https://doi.org/10.1109/MCE.2025.3565227> (Outcome of research stay in Ritsumeikan University) (IF 3.7, CiteScore 10, Q2, 2025)

**J6.** **Aragón-Jurado J. M.**; de la Torre J. C.; Ruiz P.; Dorronsoro B. 2025. *Automatic software tailoring for Green Internet of Things*. Internet of Things. Elsevier. 30. 101521. DOI: <https://doi.org/10.1016/j.iot.2025.101521> (IF 6.0, CiteScore 12.1, JCR Q1, 2025)

**J5.** **Aragón-Jurado J. M.**; de la Torre J. C.; Ruiz P.; Galindo P. I.; Zomaya A. Y.; Dorronsoro B. 2024. *Automatic Software Tailoring for Optimal Performance*. IEEE Transactions on Sustainable Computing. IEEE. 9-3, pp.464-481. DOI: <https://doi.org/10.1109/TSUSC.2023.3330671> (IF 3, CiteScore 7.7, JCR Q2, 2025)

**J4.** de la Torre J. C.; **Aragón-Jurado J. M.**; Crespo-Álvarez A.; Bárcena-González G. 2024. *GAGI: Game engine for Artificial General Intelligence experimentation*. SoftwareX. Elsevier. 26. DOI: <https://doi.org/10.1016/j.softx.2024.101665> (IF 2.4, CiteScore 5.5, JCR Q2, 2025)

**J3.** de la Torre J. C.; Jareño J.; **Aragón-Jurado J. M.**; Varrette S.; Dorronsoro B. 2024. *Source code obfuscation with genetic algorithms using LLVM code optimizations*. Logic Journal of the IGPL. Oxford University Press. DOI: <https://doi.org/10.1093/jigpal/jzae069> (IF 0.6, CiteScore 2.6, JCR Q2, 2025)

**J2.** **Aragón-Jurado J. M.**; de la Torre J. C.; Jareño J.; Dorronsoro B.; Zomaya A. Y.; Ruiz P. 2023. *Neuroevolved bi-directional LSTM applied to zero emission zones management in urban transport*. Applied Soft Computing. Elsevier. 148. DOI: <https://doi.org/10.1016/j.asoc.2023.110943> (IF 7.2, CiteScore 15.8, JCR Q1, 2025)

**J1.** Ruiz P.; **Aragón-Jurado J. M.**; Seredynski M.; Cabrera J. F.; Peña D.; de la Torre J. C.; Zomaya A. Y.; Dorronsoro B. 2023. *Optimal battery management strategies for plug-in electric hybrid buses on routes including green corridors*. Sustainable Cities and Society. Elsevier. DOI: <https://doi.org/10.1016/j.scs.2023.104556> (IF 10.5, CiteScore 22.0, JCR Q1, 2025) (Best paper award)

### JOURNAL PAPERS UNDER REVIEW

**J11.** **Aragón-Jurado J. M.**; de la Torre J. C.; Ruiz P.; Dorronsoro B. 2025. *Two-level Automatic Software Tailoring for Optimal Performance*. Under review in Applied Soft Computing. Elsevier. (IF 7.2, CiteScore 15.8, JCR Q1, 2025)

**J10. Aragón-Jurado J. M.;** Dorronsoro B.; Ruiz P. 2025. *Evaluating Compiler Optimizations for Faster and Greener Web Browsing*. Under review in Sustainable Computing: Informatics and Systems. Elsevier. (IF 3.8, CiteScore 10.7, Q1, 2025)

**J9. Aragón-Jurado J. M.;** Bangash A. A.; Dorronsoro B.; Ali K.; Hindle A.; Ruiz P. 2025. *Does Faster Mean Greener? Runtime and Energy Trade-offs in iOS Applications with Compiler Optimizations*. Under review in Sustainable Computing: Informatics and Systems. Elsevier. (Outcome of research stay in University of Alberta) (IF 3.8, CiteScore 10.7, Q1, 2025)

## **BOOK CHAPTERS**

**B1.** Dorronsoro B.; **Aragón-Jurado J. M.;** Jareño J.; de la Torre J. C.; Ruiz P. 2024. A Survey on Automatic Source Code Transformation for Green Software Generation. Encyclopedia of Sustainable Technologies (Second Edition). Elsevier. 3, pp.765-779. DOI: <https://doi.org/10.1016/B978-0-323-90386-8.00122-4>

## **INTERNATIONAL CONFERENCE PAPERS**

**C13.** de la Torre J. C.; **Aragón-Jurado J. M.;** Jareño J.; Dorronsoro B.; Ruiz P. *A Two-step Approach to Find Short Compilation Transformation Sequences for Optimal Software Runtime Performance*. In Proceedings of the Genetic and Evolutionary Computation Conference Companion. ACM. 2025. Málaga, Spain. (CORE A\*, 2025)

**C12.** Kalaica M.; **Aragón-Jurado J. M.;** Jakus I.; Dorronsoro B.; Ruiz P. *Comparison on the use of Hybrid and Plugin Hybrid Electric Buses for Sustainable Urban Transportation - Split Use Case*. 10th North American Conference on Industrial Engineering and Operations Management (2025 IEOM). 2025. Orlando, Florida, USA.

**C11. Aragón-Jurado J. M.;** de la Torre J. C.; Ruiz P.; Dorronsoro B. *Automatic Generation of Greener Software Program Versions with Genetic Algorithms*. International Conference in Optimization and Learning (OLA2025). 2025. Dubai, United Arab Emirates.

**C10. Aragón-Jurado J. M.;** Jareño J.; de la Torre J. C.; Ruiz P.; Dorronsoro B. *Two-level Software Obfuscation with Cooperative Co-evolutionary Algorithms*. In 2024 IEEE Congress on Evolutionary Computation (CEC) (pp. 1-8). IEEE. 2024. Yokohama, Japan. DOI: <https://doi.org/10.1109/CEC60901.2024.10612116> (CORE B, 2025)

**C9. Aragón-Jurado J. M.;** Dorronsoro B.; Ruiz P. *Bus Route Segmentation for Performance Optimization Using Geographical Mapping Tools*. INGEGRAF 2024. Lecture Notes in Mechanical Engineering. Springer, Cham. Valencia, Spain. DOI: [https://doi.org/10.1007/978-3-031-72829-7\\_60](https://doi.org/10.1007/978-3-031-72829-7_60)

**C8. Aragón-Jurado J. M.;** Díaz-Jiménez M.; Dorronsoro B.; Pavón-Domínguez P.; Serebinski M.; Ruiz P. *Electric Drive Assignment Strategies Optimization for Plugin Hybrid Urban Buses on Tailored Emissions Mapping*. In 2024 IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW) (pp. 909-918). IEEE. 2024. San Francisco, USA. DOI: <https://doi.org/10.1109/IPDPSW63119.2024.00160> (CORE A, 2025)

**C7.** de la Torre J. C.; **Aragón-Jurado J. M.;** Jareño J.; Ruiz P.; Dorronsoro B. *Software Performance Optimization with Genetic Algorithms*. Tenth Spanish-German Symposium on Applied Computer Science (SGSOACS 2024). 2024. Cadiz, Spain.

**C6.** Jareño J.; **Aragón-Jurado J. M.;** de la Torre J. C.; Dorronsoro B.; Ruiz P. *Management of Zero Emissions Zones in Urban Transport by Means of Neuroevolution*. Tenth Spanish-German Symposium on Applied Computer Science (SGSOACS 2024). 2024. Cadiz, Spain.

**C5.** Ruiz P.; **Aragón-Jurado J. M.;** Cabrera J. F.; de la Torre J. C.; Dorronsoro B. *Battery Management Strategies Optimization for Urban Plug-in Hybrid Buses*. International Conference in Optimization and Learning (OLA2024). 2024. Dubrovnik, Croatia.

**C4. Aragón-Jurado J. M.;** de la Torre J. C.; Ruiz P.; Dorronsoro B. *Automatic Software Performance Optimization using Genetic Algorithms*. International Conference in Optimization and Learning (OLA2024). 2024. Dubrovnik, Croatia.

**C3. Aragón Jurado J. M.;** Dorronsoro B.; Ruiz P. *Multivariable Visualization Tool of the Performance of Plug-In Hybrid Electric Buses*. Advances in Design Engineering IV. INGEGRAF 2023. Lecture Notes in Mechanical Engineering. Springer, Cham. Cadiz, Spain. DOI: [https://doi.org/10.1007/978-3-031-51623-8\\_30](https://doi.org/10.1007/978-3-031-51623-8_30) (Best paper award)

**C2.** de la Torre J. C.; **Aragón-Jurado J. M.;** Jareño J.; Varrette S.; Dorronsoro B. *Obfuscating LLVM Intermediate Representation Source Code with NSGA-II*. International Joint Conference 15th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2022) 13th International Conference on

EUropean Transnational Education (ICEUTE 2022). Lecture Notes in Networks and Systems, vol 532. Springer, Cham. Salamanca, Spain. DOI: [https://doi.org/10.1007/978-3-031-18409-3\\_18](https://doi.org/10.1007/978-3-031-18409-3_18)

**C1. Aragón-Jurado J. M.**; de la Torre J. C.; Talbi E. G.; Dorronsoro B. *A Study on the Influence of Runtime Uncertainty in the Optimization of Software Programs*. 8th International Conference on Metaheuristics and Nature Inspired Computing META. Marrakech, Morocco. 2021

## **NATIONAL CONFERENCE PAPERS**

**NC9.** Vázquez-Rodríguez E.; **Aragón-Jurado J. M.**; de la Torre J. C.; Dorronsoro B. *Evolución de la infraestructura de compilación LLVM según las optimizaciones de código disponibles*. XXIX Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2025). SISTEDES. 2025. Córdoba, Spain.

**NC8.** Pérez-Vargas A.; **Aragón-Jurado J. M.**; de la Torre J. C.; Dorronsoro B. *GreenLinux: Un sistema operativo para la medición precisa del consumo energético del software*. XXIX Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2025). SISTEDES. 2025. Córdoba, Spain.

**NC7.** de la Torre J. C.; **Aragón-Jurado J. M.**; Jareño J.; Dorronsoro B.; Ruiz P. *Optimización en dos pasos del rendimiento del software usando transformaciones de compilación*. XVI Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. AEPIA. 2025. San Sebastián, Spain.

**NC6.** **Aragón-Jurado J. M.**; Jareño J.; de la Torre J. C.; Ruiz P.; Dorronsoro B. *Ofuscación de Software en dos Niveles usando Algoritmos Cooperativos Coevolutivos*. XV Congreso Español de Metaheurísticas, Algoritmos Evolutivos y Bioinspirados. AEPIA. 2024. A Coruña, Spain.

**NC5.** **Aragón-Jurado J. M.**; de la Torre J. C.; Ruiz P.; Dorronsoro B. *Optimización automática del videojuego Doom para un rendimiento óptimo en Steam Deck*. III Congreso Español de Videojuegos. Sociedad Científica Informática de España. 2024. A Coruña, Spain. (**Best paper award**)

**NC4.** **Aragón-Jurado J. M.**; Acuña-Vega L. E.; Ortiz G.; Boubeta-Puig J.; Muñoz A. *Detección Inteligente de Sucesos en Smart Cities con Feedback de los Ciudadanos*. XVII Jornadas de Ingeniería de Ciencia e Ingeniería de Servicios (JCIS 2022). SISTEDES. 2022. Santiago de Compostela, Spain.

**NC3.** **Aragón-Jurado J. M.**; de la Torre J. C.; Benito-Jareño C.; Dorronsoro B. *Optimización de programas software considerando la incertidumbre del tiempo de ejecución*. XXVI Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2022). SISTEDES. 2022. Santiago de Compostela, Spain.

**NC2.** **Aragón-Jurado J. M.**; Acuña-Vega L. E.; Ortiz G.; Boubeta-Puig J.; Muñoz A. *Hacia la Detección Inteligente de Sucesos en Ciudades Inteligentes con la Participación Ciudadana*. II Jornadas de Investigación Predoctoral en Ingeniería Informática (JIPII 2022). University of Cadiz. 2022. Cadiz, Spain.

**NC1.** **Aragón-Jurado J. M.**; de la Torre J. C.; Benito-Jareño C.; Dorronsoro B. *Optimización robusta del tiempo de ejecución de programas software con Algoritmos Genéticos*. II Jornadas de Investigación Predoctoral en Ingeniería Informática (JIPII 2022). University of Cadiz. 2022. Cadiz, Spain.

## **TEACHING EXPERIENCE**

### **TEACHING ASSISTANT**

**Total hours delivered: 152**

**T5. Course/Subject:** 2024-25 PERCEPTION. **Department/Center:** Department of Computer Engineering, University of Cadiz. **Hours delivered:** 24 (**Bachelor's level**)

**T4. Course/Subject:** 2024-25 MACHINE LEARNING. **Department/Center:** Department of Computer Engineering, University of Cadiz. **Hours delivered:** 36 (**Bachelor's level**)

**T3. Course/Subject:** 2023-24 PERCEPTION. **Department/Center:** Department of Computer Engineering, University of Cadiz. **Hours delivered:** 24 (**Bachelor's level**)

**T2. Course/Subject:** 2023-24 MACHINE LEARNING. **Department/Center:** Department of Computer Engineering, University of Cadiz. **Hours delivered:** 36 (**Bachelor's level**)

**T1. Course/Subject:** 2022-23 AUTOMATA THEORY AND FORMAL LANGUAGES. **Department/Center:** Department of Computer Engineering, University of Cadiz. **Hours delivered:** 32 (**Bachelor's level**)

### **ACADEMIC SUPERVISION**

**BT5.** Ignacio Gilabert Rodriguez – *Evaluating the quality of obfuscation in compiled codes*, BSc Thesis, University of Cadiz, 2025.



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**BT4.** Maria Elena Vazquez Rodriguez – *Analysis of the impact of the evolution of the LLVM compilation infrastructure on source code obfuscation*, BSc Thesis, University of Cadiz, 2025.

Resulted in a national conference paper: *XXIX Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2025)*

**BT3.** Alvaro Perez Vargas – *GreenLinux, a version of Linux designed to have a low impact on energy consumption in microPCs*, BSc Thesis, University of Cadiz, 2025.

Resulted in a national conference paper: *XXIX Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2025)*

**BT2.** David Castillo Reguera – *Optimization through metaheuristic techniques of the design of positioning networks for the location of terrestrial laser scanners*, BSc Thesis, University of Cadiz, 2025.

**BT1.** Francisco Jose Sanchez Moreno – *Design and development of a markup language for the description of cooking recipes*, BSc Thesis, University of Cadiz, 2024.

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## PRESENTATIONS AND LECTURES

### INVITED TALKS

**L7.** Toward Greener Games: Reducing Energy for a Sustainable Future. Ritsumeikan Center for Game Studies. Ritsumeikan University, Ibaraki, Japan. 2025-06-25

**L6.** Software Optimization for the Green Internet of Things. Computational Intelligence Lab. Osaka Metropolitan University, Osaka, Japan. 2025-06-04

**L5.** Source Code Obfuscation with Evolutionary Algorithms. Amii Artificial Intelligence Seminar. University of Alberta, Edmonton, Canada. 2024-07-29

### ACADEMIC LECTURES

**L4.** Multi-objective optimization for the obfuscation of software programs using LLVM. Master of Science in Cybersecurity. University of Cadiz, Cadiz, Spain. 2022-05-06

**L3.** Reducing energy consumption of programs on Android smartphones using genetic algorithms. Bachelor of Science in Computer Engineering. University of Cadiz, Cadiz, Spain. 2021-09-29

**L2.** Parallel genetic algorithms for software optimization: an analysis of performance on different platforms. Bachelor of Science in Computer Engineering. University of Cadiz, Cadiz, Spain. 2021-09-29

**L1.** Parallel genetic algorithms: designs and applications. Bachelor of Science in Computer Engineering. University of Cadiz, Cadiz, Spain. 2021-09-29

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## OVERSEAS RESEARCH EXPERIENCE

### RESEARCH STAYS

**RS2.** Guest Researcher at Ritsumeikan University, Ibaraki, Japan. *April 2025 – June 2025*

**Host:** Prof. Ruck Thawonmas

**Project Objective:** Empirical study on the impact of compiler optimizations on the energy consumption of video game engines, focusing on optimizing the energy usage of the popular video game Doom.

**Outcomes:** Journal paper published in *IEEE Consumer Electronics Magazine – IEEE (IF 3.7, CiteScore 10, Q2, 2025)*.

**RS1.** Guest Researcher at the University of Alberta, Edmonton, Canada. *May 2024 – August 2024*

**Host:** Prof. Abram Hindle

**Project Objective:** Empirical study on the impact of compiler optimizations on the energy consumption of applications on iOS devices.

**Outcomes:** Journal paper currently under review in *Sustainable Computing: Informatics and Systems - Elsevier (IF 3.8, CiteScore 10.7, Q1, 2025)*.

### INTERNATIONAL COLLABORATIONS

**IC2.** Prof Yusuke Nojima – Osaka Metropolitan University, Japan. *June 2025 – Present*

Initiated collaborative research on robust evolutionary algorithms for sustainable computing following an in-person lab visit in June 2025. During the visit, I gave a research talk and held technical discussions with Prof. Nojima's group, laying the groundwork for ongoing joint work.

**IC1.** Prof. Ruck Thawonmas – Ritsumeikan University, Japan. *April 2025 – Present*

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Continued collaboration on green video games and energy-efficient LLMs after completing an in-person research stay. Ongoing joint research initiatives are being developed.

## INVOLVEMENT IN FUNDED RESEARCH PROJECTS

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**P4.** Intelligent eco-driving solutions for sustainable mobility [PID2022-137858OB-I00]

National R&D Project | Ministry of Science and Innovation, Spain | **Team Member**

**P3.** Characterization of energy efficiency in the software/hardware binomial using multifractal analysis. [TED2021-131880B-I00].

National R&D Project | Ministry of Science and Innovation, Spain | **Team Member**

**P2.** Intelligent Generation of Sustainable Software - GENIUS [P18-FR-2399].

National R&D Project | Ministry of Economy, Innovation and Science of Andalusia, Spain | **Team Member**

**P1.** Intelligent Sustainable Urban Transportation Systems [RTI2018-100754-B-I00]

National R&D Project | Ministry of Science, Innovation and Universities, Spain | **Team Member**

## AWARDS AND GRANTS

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### PAPER AND PRESENTATION AWARDS

**BP3.** 2024 Best Paper Award - III Congreso Español de Videojuegos. Sociedad Científica Informática de España.

Awarded for the paper “*Optimización automática del videojuego Doom para un rendimiento óptimo en Steam Deck*”.

**BP2.** 2023 Best Journal Paper Award - Cepsa Foundation Chair Award. Cepsa.

Awarded for the article “*Optimal Battery Management Strategies for Plug-in Electric Hybrid Buses on Routes Including Green Corridor*,” published in *Sustainable Cities and Society*.

**BP1.** 2023 Best Paper Award - International Conference on The Digital Transformation in Graphic Engineering 2023 (INGEGRAF 2023). INEGRAF.

Recognized for the paper “*Multivariable Visualization Tool of the Performance of Plug-In Hybrid Electric Buses*.”

### FELLOWSHIPS

**F1.** 2021 National FPU Fellowship, competitive research grant awarded by the Spanish Ministry of Universities.

Prestigious and highly competitive national grant for doctoral studies, awarded based on academic excellence and research potential.

### OTHER AWARDS

**OA3.** 2022 Extraordinary Master’s Degree Award, awarded to the top student in the Master’s program

Granted to the top-performing student in the Master of Research in Systems and Computing Engineering.

**OA2.** 2022 INICIA-INV Research Initiation Grant, University of Cadiz

Competitive research grant awarded under the UCA Research and Transfer Plan to support early-stage researchers based on academic excellence and the quality of the master’s thesis.

**OA1.** 2019 First Prize – atrÉBT! Entrepreneurship Competition (13th Edition), University of Cadiz.

Awarded for an innovative student-led technology project as part of a university-wide competition promoting entrepreneurship and innovation.

## SERVICE

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### CONFERENCE ORGANIZATION

**O2.** Collaborator in International Conference on The Digital Transformation in Graphic Engineering 2023 (INGEGRAF 2023).

**O1.** 2023 Special Session Organization - Artificial Intelligence for Sustainability in the 6th International Conference on Optimization and Learning (OLA).

## **REVIEWER**

### **JOURNAL**

**R7.** Reviewer for the journal: Journal of Supercomputing – Springer.

**R6.** Reviewer for the journal: Sustainable Computing: Informatics and System – Elsevier.

**R5.** Reviewer for the journal: Applied Soft Computing – Elsevier.

**R4.** Reviewer for the journal: Engineering Applications of Artificial Intelligence – Elsevier.

### **CONFERENCE**

**R3.** Reviewer for the conference: IEEE Global Conference on Consumer Electronics (GCCE) 2025.

**R2.** Reviewer for the conference: IEEE Conference on Games (CoG) 2025.

### **BOOK**

**R1.** Reviewer for the book: Data Analytics and Computational Intelligence (2022)

### **PROFESSIONAL MEMBERSHIP**

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- **IEEE Society Member**

*March 2024 – Present*

- **ACM Society Member**

*April 2025 – Present*