

# CONTROLO

## 2026 COIMBRA

Coimbra

Portugal

September 9-11, 2026

# CALL FOR PAPERS

<https://controlo2026.apca.pt>



## 17th APCA International Conference on Automatic Control and Soft Computing

The biennial 17th APCA International **Conference on Automatic Control and Soft Computing** (CONTROLO 2026) will host an unforgettable meeting with the community engaged in presenting the **latest developments in the fields of control, automation, robotics and soft computing**. CONTROLO 2026 takes place at the Quinta das Lágrimas, Coimbra, Portugal.



Paper Submission

May 1, 2026

Acceptance Notification

Jul 1, 2026

Early Registration

Jul 31, 2026

Work-in-progress

May 31, 2026

Workshops

Jun 30, 2026

Registration

Jul 1 - Sep 9, 2026

### Main Topics

(including but not limited to):

#### Control Systems

- Systems & Control Theory (linear, nonlinear, hybrid, discrete-event)
- Adaptive, Optimal & Robust Control
- Intelligent & Learning-Based Control
- Estimation, Identification & Fault Diagnosis
- Networked & Distributed Control Systems

#### Automation and Robotics

- Robotics & Autonomous Systems
- Industrial Automation & Process Control
- Cyber-Physical Systems & Embedded Systems
- Manufacturing & Industry 4.0
- Human-Machine/Robot Interaction
- Perception, Sensing & Computer Vision

#### Soft Computing

- Machine Learning & Deep Learning
- Computational Intelligence & Optimization
- AI & Pattern Recognition
- Intelligent Agents & Cognitive Systems
- Data Science & Knowledge Representation

**Paper Submission:** <https://controlo2026.apca.pt/paper-submission/>

The proceedings will be published on IEEE Xplore.

### Special Sessions

- SS-1. Mathematical methods in optimal control
- SS-2. Hybrid Techniques Applied to Modelling and Control of Complex Electromechanical Systems
- SS-3. Geometric Control and Mechanics of Nonlinear Dynamical Systems
- SS-4. Geometric and Riemannian Methods for Data Analysis and Optimization
- SS-5. Incremental Learning for Prediction and Control under Nonstationarity (Evolving, Intelligent, and Learning-based Systems)
- SS-6. Artificial Intelligence and Machine Learning for Modeling, Optimization and Control of Complex Systems
- SS-7. Human-Robot Interaction and Collaboration
- SS-8. PhAIRoS: Physical AI in Intelligent Robotic Systems
- SS-9. Operational Research and Optimisation
- SS-10. Human-Centric Cyber-Physical Systems: Intelligent Control, Robotics, and AI for Industry and Society

### Keynote Speakers



**Philippe Goupil** (AIRBUS)  
From Traditional Fault Detection and Isolation (FDI) to Learning: an Industrial Perspective on AI-Driven FDI in Civil Aviation



**André M. H. Teixeira** (Uppsala University)  
Secure Control Systems



**Paulo Leitão** (Polytechnic Institute of Bragança)  
Multi-agent Systems as a Key Enabler Technology to Realize Smart, Reconfigurable and Sustainable Cyber-Physical Systems



**Susana Vieira** (Instituto Superior Técnico, University of Lisbon)  
From Fuzzy Systems to Hybrid Intelligence Ecosystems: Bridging Explainability, Learning, and Control

### Social Programme: UC BY NIGHT.

The University of Coimbra (UC) is one of the oldest in Europe (1290) and is inscribed on UNESCO's World Heritage List.



Contact/Information:

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