

CALL FOR PAPERS



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The Organizing Committee is pleased to invite you to Azores, Portugal, for the 33rd APCA-International Conference on Control and Soft-Computing (**CONTROLO 2018**). The conference will be held in Ponta Delgada, São Miguel Island, from June 4-6, 2018 and followed by two thematic workshops on June 7. This 33rd edition of the conference is a special landmark for APCA, as it coincides with the celebration of its 33rd anniversary.

CONTROLO 2018 intends to emerge as a world-class international forum for the presentation and discussion of new advances and research outcomes, and is an appealing opportunity for informal networking in the fields of Automatic Control, Automation and Soft-Computing.

Prospective authors are encouraged to submit full papers in English, 8-12 pages, in pdf format, following instructions accessible on the conference webpage. All peer reviewed, accepted and presented papers will be included in the IEEE *Xplore* digital library, while the proceedings will be submitted to Thomson Reuters Conference Proceedings Citation Index (ISI), INSPEC and Scopus for indexation. In addition, authors of selected papers will be called upon to resubmit extended versions of their papers to a designated high impact-factor International Journal.

Special Sessions

Advances in Control Education

Computational Intelligence for Data Processing and Control

Applications of Differential Geometry to Engineering Problems

Applications on Health, Environment and Earth Sciences

Marine Systems and Robotics: Theoretical Applications

Important Dates

Full paper submission

November 15, 2017

Notification of acceptance

December 15, 2017

Camera-ready submission

March 15, 2018

Contacts

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Topics of interest include, but are not restricted to:

Control Systems

Adaptive Control

Control Education

Control Theory and Applications

Distributed Control

Estimation and Identification

Fault Detection and Control

Fuzzy Logic-Based Control

Human in the Loop Control

Intelligent and AI Based Control

Networked Control

Neural Networks and Neuro-Fuzzy Systems

Nonlinear Systems

Optimization and Robust Control

Remote and Virtual Laboratories

Structural Health Monitoring and Diagnosis

Structural Vibration Control

Soft-Computing

Adaptive and Dynamic Programming

Artificial Intelligence and Pattern Recognition

Cloud, Fog and Big Data

Cognitive Artificial Systems

Computational Intelligence

Data Mining and Information Retrieval

Data Reduction and Interpretation

Evolution of AI Systems

Independent and Cognitive Computing

Intelligent Agents and Context Awareness

Knowledge Acquisition and Representation

Machine Learning

Perception Intelligent Decision Systems

Reinforcement and Deep-Learning

Automation

Automated Guided Vehicles

Autonomous Agents

Embedded Systems

Factory Modelling and Automation

Human - Agent Interaction

Human-Machine Interfaces

Industrial Networks and Automation

Industry Automation

Instrumentation

Mechatronics Systems

Mobile Robots

Modelling of Complex Systems

Perception and Awareness

Process Automation

Real-Time Systems

Robotics

Vision, Recognition and Reconstruction

Sponsors

