



CONTROLO'2022

15TH APCA INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL AND SOFT COMPUTING

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[HTTPS://CONTROLO2022.DEEC.FCT.UNL.PT/](https://controlo2022.deec.fct.unl.pt/)

Special Session on “Intelligent systems for industrial applications”

Organized by

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Call for Papers

The climate change and the consequent problems derived from the pollution have caused society to look for new sources of energy, especially clean ones. In addition, there are new engineering and industrial requirements, and then it is necessary to address some key challenges. Some of them are for instance the energy consumption minimization, the atmosphere emissions reduction, humans' quality of life improvement, or meeting industrial enhancement requirements (reliability, robustness, security, etc.). Researchers and technical staff must pay special attention to these demands. In addition, they are bound to try to improve the situation and the current trend of examples like with the above mentioned. The traditional techniques often have limitations, although they are very important and solve the vast majority of cases. Therefore, new advanced developments from the Automated Learning are required. This Special Session offers a fascinating opportunity to present recent advances and real-world applications on Automated Learning for industrial applications.

Topics of interest include, but are not limited to:

- Fault Detection and Diagnosis;
- Improvement or new intelligent control techniques and topologies;
- Complex systems modeling;
- Optimization of processes and procedures;
- Intelligent systems applications over industrial processes;
- Systems efficiency improvement and optimization;
- Intelligent systems applications;
- Intelligent control applications;
- Smart Grids and microgrids applications;
- Mobility and electromobility applications.