



**CALL FOR PAPERS**  
**SPECIAL SESSION ON**  
**Recent Advances in Computational Intelligence for Smart Industry**  
**for ICCAD'23**  
**May 10-12, 2023, Rome-Italy**

**Session Co-Chairs:**

- Jérôme Mendes, Institute of Systems and Robotics - University of Coimbra, Portugal. jermendes@isr.uc.pt
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**Session description:**

With the increasing complexity of industry to improve operation, and to meet the increasing constraints of environmental legislation, advanced computational intelligence methodologies need to be highly efficient, flexible, reliable, and explainable. This special section aims to create a forum for discussing new advances in computational intelligence methodologies for solving problems in the smart industry, such as, improving the industry's sustainability, increasing energy efficiency, improving industry operation, and reaching a zero defect output.

State-of-the-art research from both academia and industry is welcome, as well as review articles under the topics within this Special Session.

The topics of interest include, but are not limited to:

- Intelligent control, identification, and optimization applications
- Self-diagnosis, self-awareness, and self-healing applications
- Big data and deep learning applications
- Internet of things (IoT) and cyber-physical systems
- Fault diagnosis, fault detection, and fault-tolerant applications
- Predictive maintenance and condition monitoring applications
- Explainable and interpretable AI

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**SUBMISSION**

Papers must be submitted electronically for peer review by: **January 31, 2023**

<https://www.iccad-conf.com/special-sessions/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).