

**CALL FOR PAPERS - SPECIAL SESSION****“Advanced ICT, optimization and control for Industry 4.0”**

for CODIT'23

July 03-06, 2023 ▪ Rome, Italy

**Session Co-Chairs:**

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**Session description:**

The challenges posed by the fight to the climate changes, the ongoing Europe's energy crisis, the disruption of the global supply chains, cyber-crime, etc., have emphasised the critical importance of making industries more efficient, agile, and secure, to keep them vital and competitive on the market. The application of new digital technologies and advanced control and optimization methodologies can boost efficiency in terms of reduced energy consumption, increased use of locally produced green energy, reduced energy costs and OPEX, optimized throughput, reduced makespan, better balancing of resources and utilization of machines, increased cyber-protection, etc.

The goal of this special session is to gather contributions focusing on the application of advanced technologies and methodologies (e.g., advanced control and optimization methodologies, new ICT solutions) in the industrial sector at large (production plants, manufacturing plants, assembly lines, warehouses, recycling plants, commercial facilities, etc.), for improving efficiency and competitiveness of the industries, as measured by the relevant, application-dependent key performance indicators (focusing on energy, costs, operations, security, etc.).

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

- Application of advanced control methodologies in industry (model predictive control, deep reinforcement learning, novel heuristics, etc.).
- Application of Digital Twins and other advanced ICT solutions.
- Energy efficiency in industry; energy management systems.
- Optimized operations in industry (improved assembly line balancing, task scheduling, safe learning, etc.).
- Predictive/prescriptive quality and maintenance solutions.
- Cybersecurity in industrial control systems.

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## SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 27, 2023**: <http://controls.paperecept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2023 link** “Submit a Contribution to CoDIT 2023” and follow the steps.

**IMPORTANT:** 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).

## DEADLINES

January 27, 2023: deadline for paper submission

April 15, 2023: notification of acceptance/reject

May 20, 2023: deadline for final paper and registration