



CALL FOR PAPERS - SPECIAL SESSION

“AI for humanity: Toward Transparent and Robust Optimization in Critical Systems”

for **CODIT 2026**

July 13-16, 2026 ▪ Bari, Italy

Session Co-Chairs:

Prof. Lilia Rejeb, ISG Tunis, University of Tunis, Tunisia (Lilia.rejeb@isg.rnu.tn)

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Session description:

This special session deals with the problem concerning the role of artificial Intelligence in designing transparent optimization frameworks, as well as robust approaches, for critical systems that have a direct impact on society. Such systems often operate in complex dynamic and often uncertain environments, where decision must be made efficiently, while respecting ethical, social and operational constraints. As artificial intelligence increasingly supports decision making in sensitive domains, such as disaster and emergency management, healthcare and transportation, the need for transparent and robust optimization processes becomes a necessity.

The goal is the integration of AI and Distributed AI techniques with optimization and decision-support methods to enhance reliability and interpretability to propose responsible and human-centred-AI solutions for critical societal challenges.

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

- AI-driven optimization Approaches for critical systems
- Hybrid approaches combining artificial Intelligence and operations research
- Data-driven modelling and learning-based optimization techniques
- Optimization under uncertainty in sensitive and high impact domains
- Healthcare optimization
- Transportation, mobility and logistics optimization
- Disaster and emergency management
- IoT based systems optimization
- Transparent AI for decision-support and optimization
- AI Applications in disaster response and emergency
- Ethical, responsible and human-centered AI for critical decision-making
- Resilient and robust optimization methods for dynamic environments

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **February 07, 2026:**

<http://controls.paperccept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2026** link “Submit a Contribution to CoDIT 2026” 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

February 07, 2026: deadline for paper submission

April 30, 2026: notification of acceptance/reject

May 20, 2026: deadline for final paper and registration