



CALL FOR PAPERS - SPECIAL SESSION

“Optimization Techniques for Complex Decision Problems”

for **CODIT 2026**

July 13-16, 2026 ▪ Bari, Italy

Session Chair:

Prof. Allaoua Hemmak, Mohamed Boudiaf University of M'sila, Algeria

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Session description:

Modern decision problems in engineering, management, and information systems are increasingly characterized by high dimensionality, non-linearity, uncertainty, and multiple conflicting objectives. Classical exact methods often become impractical when facing such complexity. This special session aims to bring together researchers and practitioners working on advanced optimization techniques designed to support and enhance complex decision-making processes. The session emphasizes both methodological advances and real-world applications, highlighting how optimization contributes to intelligent, robust, and scalable decision systems.

This session directly aligns with the theme “Decision and Information Technologies” by focusing on how optimization techniques serve as core computational engines for decision-support systems and intelligent information technologies.

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

- Metaheuristic and Nature-Inspired Optimization Algorithms (GA, PSO, ACO, BAT, GRASP, ILS, and related approaches)
- Hybrid Optimization Methods for Decision Support Systems (Combination of exact methods, heuristics, and AI techniques)
- Multi-Objective and Multi-Criteria Decision Optimization (Trade-off analysis, Pareto optimization, preference modeling)
- Optimization under Uncertainty and Dynamic Environments (Robust, stochastic, and adaptive optimization)
- Optimization of Large-Scale and NP-Hard Decision Problems (Scalability, decomposition, parallel and distributed optimization)

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