



The 50th International Conference on Computers and Industrial Engineering

CIE50 | October 30–November 2, 2023

Special Session on Decision Support Systems for Sustainability (DSSS)

Organizers

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Session Information

Research activities in industrial engineering and other engineering fields have witnessed an increasing interest in the development of sustainable solutions that guarantee the balance between economic growth, environmental protection, and social development and wellbeing. Moreover, companies from all sectors are more than ever aware that the development of sustainable solutions is inevitable. At the same time, these companies need to ensure a competitive advantage, meet the market's increasing expectations, and identify new business opportunities and models. Within this sustainability context, it has been recognized by the business environment and by academics that operations research is an invaluable tool for decision-making that can provide organizations with the necessary insights to globally optimize their operations.

We seek original research papers that explore the development of optimization solutions for the design and management of complex systems, including but not limited to supply chains, industrial processes, transportation, and healthcare systems. Additionally, we welcome papers developing Decision Support Systems (DSS) that consider economic, environmental, and social objectives, and combine optimization techniques such as mathematical modeling and metaheuristics with multi-criteria decision-making (MCDM), simulation, or data analytics/IA tools.

This special session will evolve around the three levels of decision-making (strategic, tactical, and operational) in complex manufacturing and service systems with a focus on sustainability, including but not limited to:

- Design of sustainable supplier and transportation networks
- Management and scheduling of sustainable healthcare systems
- Design of integrated sustainable supply chains considering innovative technologies for heavy industries
- Modeling and developing energy-efficient schedules for the manufacturing sector.

Submission Deadline: June 30, 2023

Notification of Acceptance: July 15, 2023

Early Bird Registration Deadline: July 30, 2023

Final Paper Submission Deadline: August 15, 2023