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Preface to the special issue on “Decision Support Systems in an uncertain world”

We are pleased to present this special issue of *International Transactions in Operational Research*, which reports on theoretical and technological advances as well as application-oriented work that address decision-support challenges dealing with uncertainty in the real world.

This special issue contains papers presented at the EWG-DSS 9th International Conference on Decision Support System Technology (ICDSST2023) held in Albi, France, from May 30 to June 01, 2023, and later submitted for this special issue, as well as additional papers submitted in response to an open call for papers after the conference.

The articles in this special issue cover a wide range of topics related to decision-making, optimization, resilience, and risk analysis models, which have been applied in different contexts. Innovations for the management of complex systems in sectors such as transportation, energy, health, and digital commerce are highlighted.

These studies emphasize the development of robust models and decision-support tools to address challenges in different sectors, with the focus on effective solutions vis-à-vis risk.

This special issue represents a contribution to the field of operations research and decision-making. The papers present new approaches to resource and process optimization, especially in contexts of uncertainty, by strengthening the capacity of managers to face complex scenarios, and highlighting the relevance of sustainable and adaptive models.

We would like to take this opportunity to thank the ITOR Editor-in-Chief for his support, the authors for their contributions, and the reviewers for their diligent evaluations. Together they upheld ITOR’s high standards of quality for this special issue.

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