



Operations Research: Optimization, Resilience and Sustainability

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Message from the Collection Editors

Operations research (OR) is a scientific approach for implementing advanced analytical methods to enhance decision-making in complex systems management. OR can be applied to every sector and industry that pursues continuous improvement, advancements and quality.

With this Special Issue, we aim to explore the innovative development and applicability of operations research for optimization, resilience and sustainability resolutions using advanced data analytics, simulation and modeling techniques. This research stream cuts across several research areas and disciplines, such as complex systems, data science, problem solving, decision making, system analysis, cost, strategic planning, net-zero, Industry 4.0 and 5.0, etc. Research areas may include (but not limited to) the following:

- Complex systems and optimization.
- Sustainability and net-zero.
- Industry 5.0 and social values.
- Business systems and operation.
- Systems thinking and decision making.
- Analytical modelling and simulation.
- Resilience and operational excellence.
- Data science and AI.
- Proactive/preventive maintenance.





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Message from the Editor-in-Chief

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