

## Special Issue

# Operations Research: Trends and Applications

### Message from the Guest Editors

Operations research (OR) is at the forefront of innovation, providing critical tools and methodologies to enhance decision making, efficiency, and resource allocation across industries. As organizations face increasingly complex challenges, new trends in OR are emerging, driven by advances in technology and the increasing demand for sustainable and data-driven solutions. This Special Issue welcomes scientific contributions that propose new, innovative, and original approaches in optimization and OR, with a focus on practical applications and theoretical advancements. We aim to create a platform for academics and practitioners to share their latest findings and experiences.

- Artificial intelligence and machine learning in OR;
- Quantum computing for complex optimization problems;
- Real-time and dynamic optimization in industry and services;
- Digital twins and simulation-based optimization;
- Sustainable and green optimization approaches;
- Privacy-preserving and federated optimization;
- Healthcare, logistics, manufacturing, and financial applications;
- The integration of OR with business intelligence and analytics;
- Emerging methods: metaheuristics, stochastic and robust optimization.

### Guest Editors

Dr. Óscar Oliveira  
Dr. Eliana Costa e Silva  
Dr. Dorabela Gamboa

### Deadline for manuscript submissions

8 May 2026



## Computers

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## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article, a comprehensive review or a software paper for consideration and publication in Computers (ISSN 2073-431X). Computers is an international, peer-reviewed, open access journal which provides an advanced forum for computer sciences. Computers is published in open access format—research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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