Operations Research – An international journal (ORIJ)

Special Issue on

'Operations Research in Climate Policy and Intelligent Energy Services'

Guest Editor(s):

Assoc. Prof. Haris Doukas,

National Technical University of Athens

School of Electrical and Computer Engineering

Division of Industrial Electric Devices and Decision Systems,

Athens, Greece

Email: h_doukas@epu.ntua.gr

Webpage: https://www.ece.ntua.gr/en/staff/187

Prof. John Psarras

National Technical University of Athens

School of Electrical and Computer Engineering

Division of Industrial Electric Devices and Decision Systems,

Athens, Greece

Email: john@epu.ntua.gr

Webpage: https://www.ece.ntua.gr/en/staff/65

Call for Papers:

Although scientific response has mainly comprised quantitative systems modelling approaches, responding effectively to the climate crisis and driving the necessary energy innovations and transitions requires multi-, inter-, and trans-disciplinary science. As a discipline, operational research has early and markedly impacted energy planning and optimisation; it has also provided a way forward to bridging knowledge gaps, optimising energy systems, services and supply chains, as well as understanding and addressing uncertainties. Climate policy and

intelligent energy services, therefore, are among the key features of this year's EURO 2021 Conference, the largest and most important conference for Operational Research and Management Science (OR/MS) in Europe, organised by the European Association of Operational Research Society (EURO) and the Hellenic Operational Research Society (HELORS), and held this summer in Athens, Greece.

This Special Issue is mainly dedicated to EURO 2021 and these two special sessions, on "OR in Climate Policy & Planning" and "OR for Intelligent Energy Services". However, it is not limited to session submissions and conference participants; other interested authors are also invited to submit high-quality contributions to the Special Issue. Examples of topics on OR methodologies and applications, appropriate to the theme of this special issue, include but are not limited to:

- Integrating diverse stakeholder groups and/or modelling tools to analyse cross-cutting energy and climate policy-relevant issues.
- How can we mobilise, elicit, and make use of stakeholder knowledge and what can that knowledge tell us that models cannot?
- Framing climate change and policy in the broader sustainable development spectrum.
- Management science in light of climate change and opportunities for mitigation and adaptation: optimising supply chain management, planning, innovation, investment, and financing.
- Multi-criteria group decision-making: mapping climate stakeholders' preferences to consensus levels
- Uncertainty, risk, and transitions co-governance.
- Just transitions: operational research in support of studying distributional impacts of climate policy as well as tackling social and gender inequalities.
- Data-driven architectures for energy and climate data exchange, management and real-time processing.
- Data analytics techniques and algorithms for intelligent energy services.
- Innovative applications and analytic services tailored to: (a) improve reliability of smart grid; (b) improve management of assets connected to the grids; (c) optimise comfort-enhanced building energy efficiency and management; (d) improve energy efficiency investment de-risking.

Important Dates:

Submission opens as soon as the EURO 2021 Conference ends, on July 14, 2021.

Please kindly note that review process starts immediately after the submission of a manuscript, and that all manuscripts will be made available online as soon as they are accepted. In this respect, authors are encouraged to submit at their earlier convenience.

Deadline for manuscript submissions: October 15, 2021