Transportation, Logistics, and Network Design

The Transportation, Logistics, and Network Design department solicits innovative papers in a broad range of areas including: transportation systems planning and operations, supply chain network design, facility location modeling, and vehicle routing. The department is open to a broad range of methodological approaches including mathematical programming, heuristics, game theoretical approaches, empirical and experimental analyses, and others. We strongly encourage the submission of papers that are based on real-life applications and that utilize real (as opposed to synthetic) datasets for testing algorithms and approaches. Papers that integrate two or more important areas (e.g., location and routing, or routing and inventory, or location and network design) and those that aim at enhancing systems sustainability and resiliency via emerging technologies or data are of particular interest. Papers should clearly identify the contribution of the research within the first two pages of the text.

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Scheduling, Operations Planning, and Project Management

The Scheduling, Operations Planning, and Project Management department publishes high quality theoretical and applied research in scheduling, operations planning and project management. We encourage contributions that address problems in these and related areas, both from a modeling perspective, as well as from a solution methodology point of view. The latter may include the use of various tools, including but not limited to mathematical programming, stochastic optimization, and game theoretic methods. When the research involves approximate methods, both theoretical and computational evaluations of the methodology are strongly encouraged. All application areas are considered, including manufacturing systems, production and capacity planning, inventory and supply chain management, health care, security, and sports.

We are particularly interested in novel problems and solution approaches, and encourage the submission of research that integrates portions of the production or service process. Typical integration examples include those that simultaneously evaluate several different types of operations in the supply chain. Papers should clearly identify the contribution of the research within the first two pages of the text.

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Operations, Supply Chain, and Service Management

The Operations, Supply Chain, and Service Management department welcomes submissions that feature applications of operations research techniques, including mathematical optimization, stochastic processes and simulation, as well as statistics, economics, and game theory, in areas related to operations, supply chain, and service management. These include traditional industrial engineering application areas such as supply chain management, inventory management, service systems design, revenue management, quality management, process design and improvement, risk management, and sustainable operations. In addition, the department welcomes research related to the modeling and analysis of new processes enabled by new materials, advanced robotics, 3-D printing, sensors, big data, the sharing economy, and other innovations.

Papers that advance theory and practice by developing new methods, analytical frameworks, and structural results, as well as those that provide innovative models, computationally tractable algorithms and solutions, and policy and managerial insights to specific operational problems, are encouraged. All papers published by the Operations, Supply Chain, and Service Management department are expected to provide a contribution that is significant, relevant, and conceptually sound.

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