

## Call for Papers

# Applied Optimization and Data Analytics in Computational Management

a special Issue of the **IMA J. of Management Mathematics**<sup>1</sup>

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Submission Deadline: July 31, 2018

The field of applied optimization has grown over the years attracting both theoretical and applied contributions spreading from finance to energy, supply chain management, revenue management and operations management; hence becoming a core and central stream in Operations Research and Management Science. Furthermore, the dynamic solution of complex management problems under uncertainty as well as the derivation of optimal strategies appear to be, both theoretically and practically, increasingly dependent on large information flows and the adoption of computationally intensive statistical approaches. From the optimization perspective, the area of big-data analytics leads naturally in several application domains to an extension of current mathematical formulations for integrating evolving probability spaces and information sets as well as investigating their solution consistency and coherence with longly established optimization paradigms. From a data analyst's

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<sup>1</sup> The IMA Journal of Management Mathematics <https://academic.oup.com/imaman> is a quarterly, peer reviewed, scholarly journal that publishes insightful scientific research in which Mathematics plays an important role in supporting decision making. It welcomes papers that fall into the following subject areas: OR and Management Science, Financial Modelling & Risk Analysis, Credit Scoring, Model Building and Model Optimization (both stochastic and deterministic), Production Processes, Logistics & Supply Chain Management, Transportation, Marketing Analytics, Decision Making Tools, Health Care Management. Preference is given to papers that contain mathematics that is innovative or original in the context of genuine applications to real problems

viewpoint, on the other hand, optimization theory offers a variety of numerical and optimization algorithms that have been only seldomly adopted in the Big Data domain, but are expected in the future to penetrate significantly this scientific field with the adoption of heuristic approaches and decomposition methods.

On these grounds, this special issue intends to publish updated and recent results from the optimization and data science fields, of both theoretical and applied nature, relying on methodologies addressing management problems emerging in a sufficiently broad domain, including finance and economics, energy management, supply chains and logistics, revenue management and operations management.

Christos Alexopoulos and Giorgio Consigli

February 27, 2018

**Instructions for authors can be found at:**

[https://academic.oup.com/imaman/pages/General\\_Instructions](https://academic.oup.com/imaman/pages/General_Instructions)

Authors should include **on the title page of manuscripts**: “For the AODACM special issue” and submit their manuscript by July 31, 2018, via the Journal’s online submission site:

<https://mc.manuscriptcentral.com/imaman>

Manuscripts submitted after the deadline may not be considered for the special volume and may be transferred to a regular issue.

Papers will be subject to a strict review process managed by the Guest Editors and accepted papers will be published online individually, before print publication.

Please direct questions about the special issue to the guest editors, Christos Alexopoulos and Giorgio Consigli:

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