



Mathematical Problems in Engineering

Special Issue on

Optimization Theory, Methods, and Applications in Engineering 2014

CALL FOR PAPERS

Over years of development, optimization theory and methods have grown in their ability to handle various practical problems. In light of advances in computing systems, optimization approaches have become one of the most promising techniques for engineering applications. To close the gap between optimization theory and the practice of engineering, this special issue intends to provide the details of recent advances of optimization sciences and to promote the applications of optimization methods in engineering. This special issue also provides a forum for researchers and practitioners to review and disseminate quality research work on optimization approaches and their applications in the context of engineering and to identify critical issues for further developments.

We invite investigators to contribute original research articles as well as review articles on all aspects of optimization including deterministic approaches, continuous, mixed-integer, and discrete optimization, stochastic optimization, heuristics, and hybrid methods. Papers devoted to the development of advanced optimization methods for direct or indirect use in engineering are of particular interest. Contributions containing computational issues, search strategies, and modeling and solution techniques to practical problems are also encouraged.

Potential topics include, but are not limited to:

- ▶ Deterministic optimization
- ▶ Stochastic optimization
- ▶ Heuristic algorithms
- ▶ Hybrid methods
- ▶ Industrial engineering and manufacturing systems
- ▶ Computer science and artificial intelligence
- ▶ Multicriteria decision making
- ▶ Management information system

Lead Guest Editor

Jung-Fa Tsai, National Taipei University of Technology, Taipei, Taiwan
jftsai@ntut.edu.tw

Guest Editors

John Gunnar Carlsson, University of Minnesota, Minneapolis, USA
jgc@isy.e.umn.edu

Dongdong Ge, Shanghai Jiao Tong University, Shanghai, China
ddge@sjtu.edu.cn

Yi-Chung Hu, Chung Yuan Christian University, Jhongli, Taiwan
ychu@cycu.edu.tw

Jianming Shi, Tokyo University of Science (TUS), Saitama, Japan
shi@rs.tus.ac.jp

Manuscript Due

Friday, 10 October 2014

First Round of Reviews

Friday, 2 January 2015

Publication Date

Friday, 27 February 2015