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Annals of Operations Research

Special Volume on *Data Mining and Informatics*

Closing date: October 31, 2010

Data mining seeks to reveal and characterize unknown interesting structure in data, and the results from a data mining analysis may be used for prediction and to guide decisions. Informatics develops and studies methods for representing, processing, and communicating information, and informatics may be applied to both natural and artificial systems. Both data mining and informatics have been enormously successful in a variety of applications, which in turn has attracted researchers in a wide range of disciplines. Following the theme of the 2009 *INFORMS Workshop on Data Mining and System Informatics*, the focus of this special volume is the intersection with operations research.

The decision-making capabilities of operations research methods can enhance the learning and representation of patterns and structure in data. Vice-versa, the characterizations identified and modeled by data mining or informatics can enable more efficient decision-making algorithms. This special volume seeks novel applied and methodological papers focused on any aspect of the interplay between operations research and data mining or informatics. Methodologies include, but are not limited to: learning, intelligent systems, pattern recognition, statistics, kernel methods, visualization, computing, simulation, optimization, operations management, and natural language processing. Application areas include, but are not limited to: environmental sciences, energy and power systems, health care, transportation and logistics, emergency management, manufacturing, supply chain management, and marketing.

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