Journal of the Operations Research Society of China

Call for Papers for Special Issue on Optimization Models and Algorithms in Artificial Intelligence

Scope: Artificial Intelligence (AI) along with its applications has been one of the hottest topics in recent years, and optimization architecture is of key importance for them. In fact, the typical AI model is always represented by minimizing or maximizing a certain objective/energy function. Therefore, an optimization model with a fast and robust algorithm is meaningful for AI researches.

Under such circumstances, the aim of this special issue is to solicit the state-of-the-art models and algorithms for AI, especially for machine learning, which is benefit for some interesting applications in image processing and analysis, computer-aided diagnosing, autonomous robots, intelligent manufacture, traffic flow, social network analysis, etc. The issue will also provide a convincing forum for researchers and practitioners to disseminate their latest research results.

The special issue seeks for original contribution of works which addresses the challenges from the optimization models and algorithms for AI as well as some interesting applications, such as medical image analysis, autonomous robots, intelligent manufacture, traffic flow, and social network analysis, etc.

Specific topics include, but not limited to, the following:

- Continuous optimization models for machine learning
- Continuous optimization algorithms for machine learning
- Discrete optimization for machine learning
- Complexity analysis for machine learning algorithms
- Theoretical issues and applications related to big data and deep learning
- Applications in image processing and analysis, computer-aided diagnosing, autonomous robots, intelligent manufacture, traffic flow, social network analysis, etc.

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► The primary goal is to promote researches and applications of all aspects of operational research. This journal provides a forum for practioners, academicsand researchers in operational research and related fields.

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