Mathematical Optimization in Pattern Recognition, Machine Learning and Data Mining

Guest Editor:

Dr. Valsamis Ntouskos
Remote Sensing Lab, School of Rural, Surveying and Geoinformatics Engineering, National Technical University of Athens, 15780 Athens, Greece

Message from the Guest Editor

Dear Colleagues,

This Special Issue welcomes scientific manuscripts on two relevant topics for mathematical optimization in machine learning, pattern recognition, and data mining.

1. The adaptation of existing optimization techniques from mathematics or the development of novel approaches for addressing interesting problems in machine learning, pattern recognition, and data mining. This includes improvements to existing machine learning, deep learning, pattern recognition, and data mining algorithms. Improvements can include, but are not limited to, faster convergence rates, improved bounds, improved efficiency or memory consumption, better performance, etc. Improvements should be significant and demonstrated by corresponding empirical and theoretical evaluation.

2. The design of novel machine learning, pattern recognition, or data mining approaches to solve a specific domain task. The approach should not be a simple adaptation of existing algorithms to novel data. Proposed improvements must be supported by appropriate experiments and rigorous explanations of why existing approaches are not applicable.

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Special Issue

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

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