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Mathematical Methods for Machine Learning and Computer Vision

Guest Editor:

Prof. Dr. Jianjun Wang

School of Mathematics and Statistics, Southwest University, Chongqing 400715, China

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Message from the Guest Editor

Recent decades have witnessed the rapid developments of machine learning and computer vision, as well as their huge influence in many fileds such as image recognition and classification, automatic driving, industrial manufacturing, medical imaging, to name a few. One of the crucial challenge in machine learning and computer vision is the development and utilization of different kinds of models and algorithms building bridges between data and the potential tasks. Over the past two decades, a number of mathematical methods represented by compressed sensing, high-order tensor modeling, and alternating direction method of multipliers, have been well developted to help construct the desired models and algorithms in machine learning and computer vision.

This Special Issue focuses on the significant developments on the machine learning and computer vision, especially on their mathematical methods on related models and algorithms, including but not limited to those in the following topics: image recognition and classification, sparse/low-rank subspace clustering, convex clustering, compressed sensing, recommendation system, matrix/tensor completion, robust principal components analysis.











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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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