Advances in Machine Learning, Optimization and Control Applications, 2nd Edition

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Message from the Guest Editors

In practice, many systems such as industrial processes, aerospace systems, transportation systems and power grid systems are becoming increasingly complex. Moreover, these systems may suffer from various uncertainties, high nonlinearities, external disturbances, stochastic effects, etc., which significantly challenge model-based control and optimization, while with the development of information science and sensing technology, huge amounts of data are constantly emerging. Both academia and industry have put much effort into mining valuable information from data to facilitate the control and optimization of practical systems.

We aim o present the latest theoretical and technical advancements in the broad areas of machine learning, optimization and control applications, and also to explore potential problems and challenges in connection to these techniques. Topics of interest in this Special Issue include but are not limited to machine learning, neural networks, statistical optimization learning, parallel and distributed optimization, sparse optimization, intelligent control via neural networks, and other applications of machine learning.

Special Issue

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Message from the Editor-in-Chief

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