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Numerical Optimization and Algorithms

Guest Editors:

Prof. Dr. Dunhui Xiao

School of Mathematical Sciences, Tongji University, Shanghai 201804, China

Prof. Dr. Shuai Li

Faculty of Information Technology and Electrical Engineering, University of Oulu, Oulu, Finland

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Message from the Guest Editors

Dear Colleagues,

Numerical algorithms and optimization are widely used in fields of science and engineering, such as physics, environment. mechanics. biology, data economics, finance, and so on. These problems are complex, highly nonlinear, and difficult to predict. Over the last decade, computational problems have become popular and have gained much attention due to the improved computer performance, computing methods, and the rapid development of data science technology. However, these developments have also raised various issues and challenges, such as high non-linearity, the curse of dimensionality, uncertainty, complexity, and so on. Therefore, these challenges urgently need to be addressed by developing new numerical algorithms such as graph theory, optimization algorithms, algebra, uncertainty, data science or analysis, new differential equations solving algorithms and methods, probability, and statistics algorithms and methods.

This Special Issue deals with various numerical algorithms in the fields of both science and engineering.

Prof. Dr. Dunhui Xiao Prof. Dr. Shuai Li Guest Editors











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Editor-in-Chief

Prof. Dr. Frank Werner

Faculty of Mathematics, Ottovon-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many subcommunities: Complexity theory (limitations). approximation or parameterized algorithms (types of geometric algorithms problems). (subject metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities

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