Special Issue

Application of Machine Learning and Optimization Methods in Engineering Mathematics

Message from the Guest Editors

Accelerated urbanization and the construction of the accompanying infrastructure have a significant environmental and social impact worldwide. It is considered that the construction sector is responsible for the consumption of more than 50% of resources globally. Therefore, finding optimal and sustainable solutions for the use of resources is a priority task. In order to consider the problem of optimization of complex systems from all points of view, various considerations are needed, such as engineering, environmental, economic, spatial, climatic, and social. Optimization models can be applied at different levels, from modeling of the behavior of building structures and building materials to prediction of resource consumption of buildings (bridges, buildings, traffic infrastructure), predictive modeling of hydrological systems, and predictions of extreme events. This Special Edition analyzes the application of various mathematical and optimization models in applied sciences and engineering, as well as various topics related to sustainability issues in engineering.

Guest Editors

Dr. Miljan Kovačević

Faculty of Technical Sciences, University of Pristina, 38220 Kosovska Mitrovica, Serbia

Dr. Borko Đ. Bulajić

Department of Civil Engineering and Geodesy, University of Novi Sad, 6 Trg Dositeja Obradovica Street, 21000 Novi Sad, Serbia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
axioms@mdpi.com

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Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Humberto Bustince
Department of Statistics, Computer Science and Mathematics, Public University of Navarra, 31006 Pamplona, Spain

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