Special Issue

Significance of Mathematical Modelling and Control in Real-World Problems: New Developments and Applications

Message from the Guest Editors

Mathematical modeling and systems control arise in many research problems, ranging from physical and chemical processes to biomathematics and life science. Their theoretical description is closely connected with various areas of pure and applied mathematics including nonlinear modeling, integro-differential equations, nonlinear dynamics, pattern formation, non-Markovian processes, nonlinear and anomalous transport, time-delay equations and so on. The aim of this Special Issue is to collect original and high-quality contributions related to the mathematical theory of such processes and phenomena including the dynamical models, applied and computational algorithms, controller design and mathematical methods regarded as new and prominent for understanding the problems that arise in natural phenomena...

Guest Editors

Prof. Dr. Mehmet Yavuz

1. Department of Mathematics and Computer Sciences, Faculty of Science, Necmettin Erbakan University, 42090 Meram, Konya, Turkey
2. Centre for Environmental Mathematics, Faculty of Environment, Science and Economy, University of Exeter, Penryn TR10 9FE, Cornwall, UK
3. Department of Applied Mathematics and Informatics, Kyrgyz-Turkish Manas University, Bishkek, Kyrgyzstan

Dr. Ioannis Dassios

School of Electrical and Electronic Engineering, University College Dublin, D04 V1W8 Dublin, Ireland

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Mathematical and Computational Applications
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mca@mdpi.com

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Mathematical and Computational Applications (*MCA*) is devoted to the dissemination of original research in the field of engineering, natural sciences and social sciences where mathematical and/or computational techniques are necessary for solving specific problems. The aim of the journal is to provide a medium by which a wide range of experience can be exchanged among researchers from diverse fields such as engineering (electrical, mechanical, civil, industrial, aeronautical, nuclear, etc.), natural sciences (physics, mathematics, chemistry, biology, etc.) and social sciences (administrative sciences, economics, political sciences, etc.).

Editors-in-Chief

Prof. Dr. Oliver Schütze
Departamento de Computacion, Cinvestav, Mexico City 07360, Mexico
Prof. Dr. Gianluigi Rozza
SISSA MathLab, International School for Advanced Studies, Office A-435, Via Bonomea 265, 34136 Trieste, Italy

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