

Special Issue

Applied Modern Mathematics in Complex Networks

Message from the Guest Editors

Modern mathematics is at the heart of an increasing number of innovations in the field of digital communication, satellite navigation, e-commerce, medical technology, and consumer electronics. Modeling and simulation of computer and communication networks as well as social network analysis are also based on profound mathematical knowledge and methods. Current and previous developments in these highly innovative fields have led to a new understanding of mathematics. In this SI call, the aim is to present the role of modern statistical methods in complex networks, as well as robustness and reliability in complex networks, and serves to support interactions among mathematicians, statisticians, engineers, and scientists working in the interface of experiment, computation, analysis, and statistics.

Guest Editors

Dr. Shahaboddin Shamshirband

Department of Computer Science, Chalous Branch, Islamic Azad University, Chalous, Iran

Dr. Mohammad Shojafar

ICS/5GIC, University of Surrey, Guildford GU27XH, UK

Dr. Zahra Pooranian

SPRITZ Security and Privacy Research Group, University of Padua, 35121 Padova, Italy

Deadline for manuscript submissions

closed (31 July 2018)



Mathematical and Computational Applications

an Open Access Journal
by MDPI

Impact Factor 2.1
Indexed in Scopus



mdpi.com/si/11969

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

[mdpi.com/journal/
mca](http://mdpi.com/journal/mca)





Mathematical and Computational Applications

an Open Access Journal
by MDPI

Impact Factor 2.1
Indexed in Scopus



[mdpi.com/journal/
mca](https://mdpi.com/journal/mca)



About the Journal

Message from the Editorial Board

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

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q2 (Mathematics, Interdisciplinary Applications)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.9 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).