



Mathematical Modelling of COVID-19

Collection Editor:

**Dr. Cristiana João Soares da
Silva**

1. Department of Mathematics,
ISTA, Iscte-Instituto Universitário
de Lisboa, Av. das Forças
Armadas, 1649-026 Lisboa,
Portugal

2. Center for Research and
Development in Mathematics
and Applications (CIDMA),
Department of Mathematics,
University of Aveiro, 3810-193
Aveiro, Portugal

Message from the Collection Editor

Dear Colleagues,

COVID-19 pandemic has been affecting our world for more than one year. Scientists from many different fields have been working hard, trying to use their skills and knowledge on the control and eradication of the pandemic. Mathematical models are one of the tools that has been used to model and predict the evolution of the pandemic under different scenarios.

This Collections aims to gather original scientific papers where different mathematical tools are used to study the transmission dynamics of SARS-CoV-2 and discuss control strategies of COVID-19 pandemic.

Topics of interest include, but are not limited to: mathematical modeling, optimization methods, complex networks, stochastic and hybrid models applied to COVID-19.

Dr. Cristiana J. Silva
Collection Editor





an Open Access Journal by MDPI

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

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.).

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [Inspec](#), and [other databases](#).

Journal Rank: JCR - Q2 (Mathematics, Interdisciplinary Applications)

Contact Us

*Mathematical and Computational
Applications* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mca
mca@mdpi.com
[X@MCA_MDPI](#)