Special Issue

Advances in Markovian Dynamic and Stochastic Optimization Models in Diverse Application Areas

Message from the Guest Editor

Markovian dynamic and stochastic optimization is an active research area concerning the design and analysis of optimal or nearly optimal policies for Markov decision models of stochastic systems evolving over time. Such models arise in a wide variety of application areas, including manufacturing, marketing, service operations, finance, call centers, and cloud service systems. In this Special Issue, we shall collect recent theoretical and application-oriented advances regarding Markovian dynamic and stochastic optimization models in any application area. This includes the design and analysis of optimal and nearly optimal policies, performance analysis, large-scale systems, queueing systems, bandit models,and computational studies.

Guest Editor

Prof. Dr. José Niño-Mora
Department of Statistics, Carlos III University of Madrid, 28903 Getafe (Madrid), Spain

Deadline for manuscript submissions

closed (31 August 2023)

Σ

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/si/69513

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

mdpi.com/journal/mathematics

MDPI

Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/journal/mathematics

MDPI

About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).