





an Open Access Journal by MDPI

Control, Optimisation, and Applications of Stochastic Uncertain Systems

Guest Editors:

Dr. Randa Herzallah

Zeeman Mathematics Institute, University of Warwick, Coventry CV4 7AL, UK

Dr. Yuyang Zhou

School of Computing Engineering and Built Environment, Edinburgh Napier University, Edinburgh EH10 5DT, UK

Deadline for manuscript submissions:

30 September 2024

Message from the Guest Editors

Uncertainty is a ubiquitous feature of many real-world systems, and accounting for it is essential for designing effective control and optimization strategies. Stochastic control theory has emerged as a powerful tool for addressing the challenges posed by uncertainty, finding applications in diverse fields, such as engineering, economics, finance, and the physical and biological sciences. This Special Issue focuses on the latest advances in the control, optimization, and applications of stochastic uncertain systems. Topics of interest include the development of new mathematical models and algorithms for stochastic control, performance analysis of stochastic control systems, intelligent control and machine learning, and applications of stochastic control in domains such as robotics, energy systems, and finance. The contributions to this Special Issue highlight the importance of considering uncertainty in the design and implementation of control and optimization strategies, showcasing the versatility and effectiveness of stochastic control approaches.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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.

Author Benefits

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

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

Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us