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Stochastic Modeling and Applied Probability, 2nd Edition

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Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on new approaches, methods and applications in stochastic modelling and optimal control. The topics of interest in this Special Issue are the modelling and optimization of telecommunication and engineering systems, theoretical methods for the analysis of teletraffic and queueing systems, and mathematical and computer modelling in engineering, natural sciences, economics and other areas where there is a need for stochastic analysis of random processes. Various studies on the reliability of stochastic systems are also suitable for this Special Issue. Additionally, we would like to highlight a group of papers related to statistical data analysis. This includes topics such as sensor data processing and visualization, the simulation modelling of various models and their use in machine learning algorithms, simulation-based optimization, machine learning algorithms with dynamic programming and so on.

We also invite authors to support this Special Issue with their own new investigations in the field of stochastic modeling and applied probability.

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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.

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