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Stochastic Statistics and Modeling

Guest Editors:

Prof. Dr. Patricia Román-Román
Department of Statistics and Operations Research, Faculty of Sciences, s/n, Campus de Fuentenueva, University of Granada, 18071 Granada, Spain

Prof. Dr. María Jesús García-Ligero
Department of Statistics and Operations Research, Faculty of Sciences, s/n, Campus de Fuentenueva, University of Granada, 18071 Granada, Spain

Deadline for manuscript submissions:
closed (1 March 2021)

Message from the Guest Editors

This Special Issue of *Mathematics* will publish original research papers that cover the study of several topics related to the stochastic modeling of dynamical systems. The focus will be the introduction and study of new dynamic models that can model phenomena in areas of application. Contributions considering the study of existing models will also be welcome (inference, applications in real phenomena, resolution of problems related to the type of phenomenon under study, etc.)

Potential topics include:

- Modeling by stochastic processes
- Inference in stochastic processes
- First-passage-times
- Computational methods for stochastic processes
- Dynamical systems estimation
- Signal processing
- Filtering and smoothing algorithms
- Applications in risk theory, insurance and mathematical finance, biosciences and environmental science, cell proliferation, and other areas of interest.

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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 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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Mathematics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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