



Nonlinear Systems: Dynamics, Control, Optimization and Applications to the Science and Engineering

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editor

The aim of this Special Issue is to highlight papers that show dynamics, control, optimization and applications of nonlinear systems. This has recently become an increasingly popular subject, with impressive growth concerning applications in engineering, economics, biology, and medicine, and can be considered a veritable contribution to the literature. Original papers relating to the objective presented above are especially welcome subjects.

Potential topics include but are not limited to the following:

- Stability analysis of discrete and continuous dynamical systems;
- Nonlinear dynamics in biological complex systems;
- Stability and stabilization of stochastic systems;
- Mathematical models in statistics and probability;
- Synchronization of oscillators and chaotic systems;
- Optimization methods of complex systems;
- Reliability modeling and system optimization;
- Computation and control over networked systems.





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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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