Special Issue

Learning Empowered Control Systems: Theory, Computation and Applications

Message from the Guest Editor

I am delighted to introduce our upcoming Special Issue entitled “Learning Empowered Control Systems: Theory, Computation and Applications”. This Special Issue focuses on the mathematical content inherent in the following:

- Deep Learning for Control Systems: Unleashing the potential of deep learning and artificial neural networks to enhance the development, design and testing of advanced control methods.
- Reinforcement Learning Based Control: Investigating reinforcement learning techniques and adaptive control methods, emphasizing the mathematical foundation for guaranteeing stability in control systems.
- Autonomous and Intelligent Systems: Exploring smart multi-agent systems with application in the distributed and coordinated control of autonomous and intelligent systems.
- Mitigating Time Delay in Control Systems: Developing model-based or data-driven delay compensation techniques for the stabilization and optimization of control systems.
- System Identification for Modelling and Control: Developing mathematical and computational methods for system identification and parameter identifiability tests for the modelling and control of complex dynamical systems.

Guest Editor

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Deadline for manuscript submissions

closed (15 November 2024)

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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.

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