

Special Issue

Model Predictive Control and Optimization for Cyber-Physical Systems

Message from the Guest Editors

We are inviting submissions to the *Mathematics* Special Issue on “Model Predictive Control and Optimization for Cyberphysical Systems”. Complex systems such as multienergy microgrids or shipboard systems require effective coordination of the functioning of a whole set of independent spatially distributed devices and digital twins in conditions of limited access to the data about the current state of physical systems under control. Future energy and telecom systems will become even more complex to effectively integrate various distributed renewable energy sources. Progress in advanced cyberphysical systems and computational intelligence requires rethinking of conventional methods of dynamical systems modeling and control. This Special Issue aims at addressing the top mathematical and computational challenges in cyberphysical systems. Special attention will be paid to the theory of advanced model predictive control and optimization methods and their applications.

Guest Editors

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Deadline for manuscript submissions

closed (30 August 2022)



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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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