

Special Issue

Optimization and Control of Cyber-Physical Systems

Message from the Guest Editors

Cyber-physical systems (CPSs) integrate sensing, computation, control technologies and networking with physical entities. CPSs also interact with the environment and infrastructure by connecting to a network of multiple devices. Advances in CPSs have the potential to affect various technologies and applications such as connected and autonomous vehicles, crowdsourced data applications, cooperative robots, the Internet of Things, smart grids, cybersecurity solutions and smart cities. Optimization and control play a great role in the modeling, design and analysis of cyber-physical systems (CPSs). Optimization and control are used to provide responsive, stable, resilient, reliable, secure and efficient systems. Both traditional, model-based control approaches and modern, artificial-intelligence-based approaches have been used for this purpose. The aim of this Special Issue will be to feature articles on the optimization and control of cyber-physical systems and how they will impact technology and society in the future.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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