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Intelligent Sensing, Control and Optimization of Networks

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Message from the Guest Editors

Complex cyber-physical networks (CCPNs) refer to next generation networked systems whose normal functioning relies largely on the cyber-physical interactions among neighbored cyber-physical individuals. Typical examples of such systems include power grids, the Internet, industrial sensor networks and the public transportation systems. Many advantages can be yielded from CPNNs compared with the traditional networked systems (including both complex networks and multi-agent systems) such as the high precision sensing and control ability, powerful on-line optimization ability, favourable fault-tolerant capability and high scalability. Yet, many issues need to be addressed before harvesting all the above-mentioned advantages. The special issue aims to establish a forum for international researchers from different fields of electrical engineering, systems and control theory, computer science and applied mathematics, to present and evaluate the most recent developments and new ideas on intelligent sensing, control and optimization of CPNNs, regarding both fundamental theory and practical applications.



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Special Issue



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Message from the Editor-in-Chief

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