



Cyber-Physical Systems Applications and Security

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Message from the Guest Editors

Cyber-physical systems (CPS) is now changing the way we interact with these critical systems, which is similar to the way in which the Internet has changed how people interact. CPS has found various applications, e.g., in power grids, transportation systems, manufacturing systems, and so on. Meanwhile, we have witnessed the significant success of many advanced techniques, such as artificial intelligence, optimization, smart sensing, intelligent control, etc., in various domains and complex systems. These techniques or methodologies also perfectly match the features of CPS, i.e., complex or large systems, which involve handling a huge amount of data, making critical decisions and achieving reliable performance. Due to its cyber component, CPS is vulnerable to cyber attacks, exposing the critical systems to great threat, as the service disruption can lead to significant social and economic impacts. Therefore, we should also apply advanced techniques to address the security problems in CPS whilst developing new applications.

This Special Issue will focus on integrating different advanced techniques into CPS to meet its various requirements, challenges and security threats.

