Special Issue

Cyber-Physical Systems: Theory & Applications

Message from the Guest Editor

Cyber-physical systems are a key technology enabling the development of highly automated and autonomous systems. The development of new complex and distributed safety-critical systems increases the challenges of testing due to a variety of verification and validation methods, and the strictly required confidence in the functional correctness of heterogenous cooperating systems and the management of test data. To facilitate these efforts, suitable engineering and risk assessment methods exist that are implemented using a test environment, building the basis for putting the system under test in a controlled test setting. The topics of interests include, but are not limited to, the following domains:

- Design, synthesis and verification of CPS
- Big data modeling and analytics for CPS
- Modeling and optimization for CPS
- Design automation for CPS
- Embedded systems
- CPS fault detection and recovery
- CPS security and privacy
- Industrial CPS and smart manufacturing
- Applications of CPS in various domains such as smart intellectual systems, automotive and transportation systems, smart healthcare, surveillance systems and robotics

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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