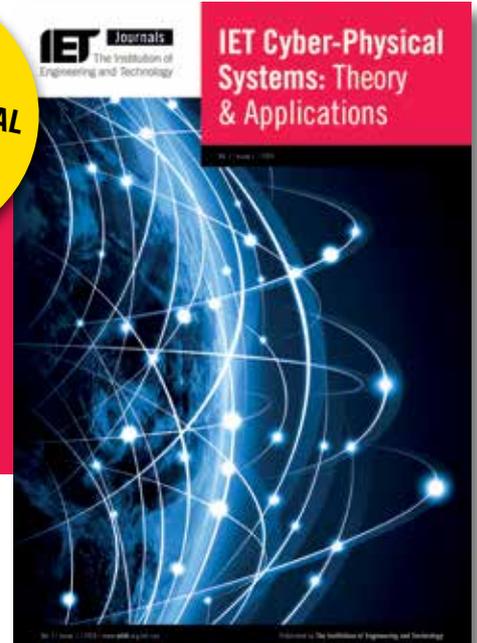


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# Call for Papers

## *IET Cyber-Physical Systems: Theory & Applications*

**Editors-in-Chief:** Shiyun Hu, Michigan Technological University, USA  
Albert Zomaya, The University of Sydney, Australia

### Special Issue:

Recent Advances in Big Data Analytics and  
Cyber-physical Systems Security

Recent advancement in technologies for computing, communications and control provides opportunities to bridge physical components or processes with cyber-space leading to Cyber Physical Systems (CPS) in the Internet-of-Things (IoT) era. The basic notion of CPS is to use computing (sensing, data analytics, predicting, understanding, etc.), communication (interaction, intervention, interface management, etc.) and control (automation, validation, interoperation, etc.) to make intelligent and autonomous systems. Such CPS systems are playing increasingly prevalent and important roles in the IoT era such as in transportation, manufacturing, aerospace, entertainment and many automated physical systems. Big data analytics and security are major components for resilient CPS. Efficient approaches for processing big data will not only enhance CPS themselves but also the processing, analysis and management of CPS big data for making real-time decisions. However, there are many issues and hurdles for big data analytics and CPS security that need discussion.

The goal of this special issue is to provide a platform for researchers and practitioners from academia, government and industry to present their research results in the area of big data analytics and CPS security. Submissions should present novel algorithms, tools, architectures, protocols, theories, and technologies for big data analytics and CPS security.

#### Topics of interest include but are not limited to:

- Big data analytics for CPS and IoT real-time control
- Secure CPS and IoT architectures
- Data acquisition, analysis and mining for CPS
- Cloud-integrated CPS and IoT
- Security and privacy in CPS
- Cloud-integrated industrial CPS
- Opportunistic spectrum access CPS
- Modeling, simulations and validation of CPS
- Virtualization of physical components in cloud-CPS
- Tools and methods for big data analytics for CPS
- Fog computing for big data analytics and CPS security
- Cloud computing for big data analytics and CPS security
- Sensor-actuator networks for CPS
- Big data analytics and CPS security for mobile CPS
- Networked social networks and CPS
- Game theory for CPS security
- Hardware-supported trustworthy CPS platforms

All submissions are subject to the journal's peer-review procedures. The authors should follow the journal's Author Guide at <http://digital-library.theiet.org/journals/author-guide> when preparing papers for submission to the Special Issue.

### Important dates:

**Submission deadline:**  
Dec 20 2016

**Publication Date:**  
Q2 2017

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