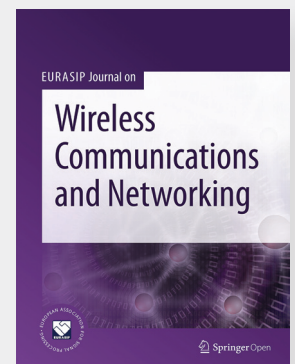


EURASIP Journal on Wireless Communications and Networking

Special Issue on Big Data Analytics for Cyber-Physical Systems

A Cyber Physical System (CPS) is an integrated infrastructure that involves sensing, computation, communications, and control. The purpose of building a CPS is to transit the physical world into the information world, so that the physical world can be efficiently sensed and controlled in a reliable, secure, real-time, and distributed manner. CPSs have been widely deployed in diverse fields such as agriculture, transportation, and health care, which provide a large volume of big sensory data. Current CPSs suffer from the lack of effective big data analytics to collect, organize, and analyze the vast and diverse sensory data, incurring imperfect integration from the virtual world and the physical world. It is undoubted that future CPSs will be more complicated in terms of capability, adaptability, security, and usability. Unfortunately, industry has no practical ways to process big sensory data and the research for big data analytics is still at the very initial phase. Therefore big data analytics for CPSs is attracting more and more attention from both academia and industry.

The central theme of this special issue is to investigate novel methodologies and theories of big data analytics for CPSs. This special issue encourages submissions of high-quality unpublished papers reporting original works in both theoretical and experimental research in the area of big data analytics for CPSs.



Call for
Papers

Potential topics include, but are not limited to:

- Data Collection and Storage for CPS
- Data Mining and Analysis for CPS
- Data Quality Management for CPS
- Data Security and Privacy for CPS
- Mobile Computing and Devices for CPS
- Simulation of CPS Applications
- Control Theory Methods for CPS
- Security of Industrial Control Systems
- Threat Modeling for CPS
- Urban Transportation System Security
- Evaluation Approaches and Metrics
- Data Fusion in Smart Environments
- Smart Grid Security

Submission instructions

Before submission authors should carefully read over the Instructions for Authors, which are located at jwcn.eurasipjournals.com/authors/instructions. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at jwcn.eurasipjournals.com/manuscript according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Special Issue on Big Data Analytics for Cyber-Physical Systems” in the cover letter. All submissions will undergo initial screening by the guest editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

Lead Guest Editor:

Yingshu Li

Georgia State University, USA

yili@gsu.edu

Guest Editors

Antonio J. Jara

University of Applied Sciences Western Switzerland, Switzerland

jara@um.es

A. Selcuk Uluagac

Florida International University, USA

suluagac@fiu.edu

Jianzhong Li

Harbin Institute of Technology, China

lijzh@hit.edu.cn

Runhe Huang

Hosei University, Tokyo, Japan

rhuang@hosei.ac.jp

Submission schedule

Manuscripts due:

December 30, 2015