

Call for Papers: Special Issue "Applications for Smart Cyber Physical Systems"

Submitted by [willirn1](#) on Thu, 12/19/2019 - 3:19pm

Call for Papers

Special Issue "Applications for Smart Cyber Physical Systems"

Deadline: March 15th, 2020

The emerging trends and new generations of cyber-physical systems (CPS) are changing the paradigm of existing systems, offering a vast amount of potential killer applications. Advances in communication, sensing and data analytics, exploitation of big data, data fusion techniques, drones, robotics, new human-computer interaction, and new solutions that provide artificial intelligence and machine learning are rapidly proliferating innovations to a wide range of CPS applications.

Modern CPS applications can be found anywhere in various domains ranging from smart homes and buildings, smart cities, energy management, smart grid systems, environmental sensing, smart health, process control, smart manufacturing and logistics (Industry 4.0) to intelligent transportation systems, electric and autonomous cars, security and privacy, military systems, smart learning, human-in-the-loop systems, etc. CPS needs to achieve scalability, adaptability, efficiency, autonomy, usability, reliability, resiliency, safety, and security; thus, CPS applications must be smart. Challenges still remain in the numerous domains and trends collectively or separately to achieve ground-breaking innovations.

This Special Issue aims to cover the recent emerging trends and applications for smart cyber-physical systems. We invite articles on the innovative research challenges of applications for smart CPS. Topics of interest include but are not limited to:

- Machine learning/Artificial Intelligence approaches for CPS applications;
- Ontology-based models for CPS applications;
- Data mining and analytics for CPS applications;
- Data fusion for CPS applications;

- Privacy and security for CPS applications;
- CPS applications for smart transportation;
- CPS applications for smart health;
- CPS applications for smart factory;
- CPS applications for smart grid;
- User studies for CPS applications;
- Smart sensing for CPS applications;
- Mobile and cloud for CPS applications;
- Networking for CPS applications;
- Education for CPS applications;
- Human-in-the-loop in CPS applications.

Special Issue Editor

Dr. Daehan Kwak [E-Mail](#) [Website](#)

Guest Editor

School of Computer Science, Kean University, NJ 07083, USA

Interests: Systems & Networking; IoT-enabled Cyber Physical Systems; Wireless & Sensor Systems; Ubiquitous Computing; Ubiquitous Computing

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com by [registering](#) and [logging in to this website](#). Once you are registered, [click here to go to the submission form](#). Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited. For planned papers, a title and short abstract (about 100 words) can be sent to the Editorial Office for announcement on this website.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the [Instructions for Authors](#) page. [Electronics](#) is an international peer-reviewed open access monthly journal published by MDPI.

Please visit the [Instructions for Authors](#) page before submitting a manuscript. The [Article Processing Charge \(APC\)](#) for publication in this [open access](#) journal is 1400 CHF (Swiss Francs). Submitted papers should be well formatted and use good English. Authors may use MDPI's [English editing service](#) prior to publication or during author revisions.

[? Call for Proposals: Foundational Research in Robotics \(NSF\) CfP: The 17th European Conference on Modelling Foundations and Applications \(ECMFA 2021\) ?](#)



[Calls for Papers](#) [CPS Domains](#) [Smart Grid](#) [Communication](#) [Energy](#) [Health Care](#) [Transportation](#) [Announcement](#)
