

IEEE International Performance Computing and Communications Conference  
(IPCCC 2017)

Special session on  
Cyber Physical Systems: Security, Computing, and Performance  
Bahia Resort Hotel, San Diego, California, USA,  
December 10-12, 2017  
<http://www.ipccc.org/>

The new paradigms and tremendous advances in computing, communications and control have provided and supported wide range of applications in all domains of live, in particular, bridging the physical components and the cyber space leading to the Cyber Physical Systems (CPS). The notion of CPS is to use recent computing, communication, and control methods to design and operate intelligent and autonomous systems that can provide using cutting edge technologies. This require the use of computing resources for sensing, processing, analysis, predicting, understanding of data, and then communication resources for interaction, intervene, and interface management, and finally provide control for systems so that they can inter-operate, evolve, and run in a stable evidence-based environment. This special session solicits unpublished research work related to the latest challenges, technologies, solutions, techniques and fundamentals pertaining to all aspects of CPS.

### **Topics**

Topics of the track consist of all aspects related to CPS including but are not limited to:

- Cyber-physical issues in next-generation communication systems
- Real-time Sensing, Reasoning and Adaptation
- Cloud-integrated Cyber-Physical Systems.
- Evolutionary computing for CPS.
- Security and Privacy
- Computation Models
- Testing and verification
- Performance evaluation
- Mobile Sensors
- Adaptive Control in Cyber-Physical Systems
- Industrial applications
- Distributed computing for CPS.
- Autonomous systems and UAVs.
- Applications of CPS in eHealth, life sciences, energy, smart cities.
- Safety-critical, dependable, fault-tolerant systems.
- Distributed, highly networked architectures
- Communication and Infotainment Systems in vehicles
- Networking for intelligent mobility and transport infrastructures
- Sensor networks
- Intelligent and collaborative methods
- Simulation and visualization.

## Submission Instructions

Submitted papers must be neither previously published nor under review by another workshop, conference or journal.

Only electronic submissions in PDF will be accepted. Submitted regular papers must be written in English, must be no longer than 6 pages in 10-point font, must render without error using standard PDF viewing tools, must print on US-Letter-sized paper, and must include the author names and affiliations in the first page. An extra page is allowed with 100\$ extra registration fees.

Submitted manuscripts may not exceed six (6) single-spaced double-column pages using 10-point size font on 8.5x11 inch pages (IEEE IPCCC conference style), including figures, tables, and references. See style templates for details:

[IEEE Manuscript Templates for Conference Proceedings](#)

The authors of regular papers will deliver oral presentations. The authors of demo and poster papers will deliver system demonstrations and poster presentations, respectively. All accepted papers will be published by in IEEE IPCCC proceedings and indexed by [IEEEExplore](#).

All paper will submitted using EDAS system:

<https://edas.info/newPaper.php?c=24124>

### Important Dates

- Paper Submission Deadline: September 30, 2017
- Notification of Acceptance: October 14, 2017
- Final paper and Author Registration: October 21, 2017.

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