

**Seventh International Workshop on Cyber Physical Systems (IWOCPS-2018) May 23th - 25th, 2018,  
University Politehnica of Bucharest, Romania**  
<http://iwocps.cpru.pub.ro>

We have a great pleasure to invite you to participate in the Seventh International Workshop on Cyber Physical Systems (IWOCPS-2018). IWOCPS-2018 covers the latest advances in Cyber Physical Systems.

The main objective of our workshop is to lead to the creation of responsive environments for networking and, at longer-term, the development of Cyber Physical Systems. We envision that the cyber-physical systems of tomorrow will far exceed those of today in terms of adaptability, autonomy, efficiency, functionality, reliability, safety, and usability.

Research advances in cyber-physical systems promise to transform our world with systems that respond more quickly, are more precise, work in dangerous or inaccessible environments, provide large-scale, distributed coordination, are highly efficient, augment human capabilities and enhance societal wellbeing.

We are looking to integrate the fundamental aspects with different heterogeneous components and to define new instruments and tools to analyze and design complex Cyber Physical Systems.

**Organizers**

- *Romanian Society of Control Engineering and Technical Informatics (SRAIT)*
- *Romanian Academy – Information Science and Technology Section*

The workshop seeks original contributions in all relevant areas, including but not limited to the following:

- *Foundation of CPS*
- *Stability Analysis for CPS*
- *Formal methods for CPS*
- *Intelligent Information System*
- *Networked Control Systems*
- *Smart Sensors and Actuators*
- *Wireless Sensors and Actuators Network*
- *BigData and CPS*
- *QoC and QoS*
- *Embedded Systems*
- *Methodologies and tool chains for modeling and simulating CPS*
- *Modeling of Complexity*
- *Design of Complex Systems*
- *Architecture of CPS*
- *Intelligent Offloading Architectures for the IOT*
- *Reference Architectures and Standards for CPS*
- *Architectures, standards and methods for efficient onboard - offboard processing*
- *Business Intelligence approaches for predictive analytics and control of CPS*
- *Autonomous Systems & Self-x Capabilities*
- *Cognitive Cyber-Physical Systems*
- *Advance Communication in CPS*
- *CPS and Future Factory*
- *Storage and processing technologies for real-time data management (e.g. In-Memory)*

- *Centralized and distributed data management*
- *Safety and Security for CPS and their mutual impact*
- *Smart Grid as a CPS*
- *CPS in Intelligent Transportation Systems*
- *CPS and Healthcare Systems*
- *Converging CPS Systems in different application domains*
- *Formal verification and validation of CPS*

## **Organizing Committee**

### **General Chairs**

*Ioan Dumitrache, Romania*

*Acad. Florian Filip, Romania*

### **Important Dates**

- Submission Deadline: January 15th, 2018
- Authors Notification: 1<sup>st</sup> March, 2018
- Author Registration: 1st May, 2018
- Final Manuscript: 1st April, 2018
- Workshop Dates: 23th – 25th May, 2018

### **Submission Guidelines**

The Program Committee will select the contributions after rigorous peer-review.

Please send via web site a draft version of your paper(s) with no more than 8 pages, A-4 sheets, Times New Roman font, using the IFAC format. For submissions only PDF format is accepted. Details about author(s) must be provided: first name, last name, affiliation, position, mailing address, phone and fax numbers, e-mail address. For papers with multiple authors the contact person must be indicated.

All papers will be published in the Conference proceedings. Selected papers will be published in Journal of Control Engineering and Applied Informatics - CEAI (ISI Journal).

### **Workshop Fee**

Registration fee is 250 Euro and includes participation, Conference proceedings and CD, coffee breaks and cocktail.

Also check out the IWoCPS-2018 web site for up-to-date info at <http://iwocps.cpru.pub.ro>.

We are looking forward to welcome you in Bucharest!

IWoCPS-2018 Chair,

Ioan Dumitrache, Romania