

# IWoCPS-2015

Submitted by Ioan Dumitrache on Sun, 01/18/2015 - 3:44pm

## **International Workshop on Cyber Physical Systems (IWoCPS-2015)**

4th Edition,

in conjunction with **CSCS20: The 20th International Conference on Control Systems and Computer Science**

**28-29 May 2015**, Faculty of Automatic Control and Computers, **Bucharest, Romania**

<http://iwocps.hpc.pub.ro>

We kindly remind you the invitation you to participate in the Fourth International Workshop on Cyber Physical Systems (IWoCPS-2015). IWoCPS-2015 covers the latest advances in Cyber Physical Systems. The aim is to stimulate research that will 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 (e.g., autonomous collision avoidance), are more precise, work in dangerous or inaccessible environments (e.g., autonomous systems for search and rescue, firefighting, and exploration), provide large-scale, distributed coordination (e.g., automated traffic control), are highly efficient (e.g., zero-net energy buildings), augment human capabilities, and enhance societal wellbeing (e.g., assistive technologies and ubiquitous healthcare monitoring and delivery).

### **Workshop General Chair**

Ioan Dumitrache

Faculty of Automatic Control and Computer Science, University Politehnica of Bucharest, Romania

### **International Program Committee**

Florin Filip (RO)

Doina Banciu (RO)

Georgi Dimirovski (MK)

Adina Magda Florea (RO)

Radu Marculescu (USA)

Gheorghe Stefan (RO)

Horia Teodorescu (RO)  
Dan Tufis (RO)  
Mihail Voicu (RO)  
Toma Dragomir (RO)  
Corneliu Lazar (RO)  
Liviu Miclea (RO)  
to be completed

### **Organizers**

Romanian Academy. Information Science and Technology Section  
Romanian Society of Control Engineering and Technical Informatics  
Ministry of Communication  
IEEE Romanian Section

### **Workshop Topics**

Architecture and Theoretical Foundations of CPS  
Modeling, Analysis and Design of CPS  
Heterogeneous Distributed Networked Embedded Systems  
CPS Integration with Internet of Things, Cloud Computing, etc.  
Stability Analysis for CPS  
CPS Interoperability and Interconnection  
Advanced Communication  
Network Control System  
QoS and QoC  
Design of Complex Adaptive Systems for CPS  
Smart Sensors and Automated Detection  
WSAN, MANET  
Ambient Intelligence  
Robustness and Adaptation of CPS  
Security, Privacy, and Risk in CPS  
Threat Modeling and Vulnerability Analysis for CPS  
CPS as part of System of Systems  
Applications for CPS: Smart Grid, Intelligent Manufacturing, Intelligent Systems,  
Medicine, Building Automation, Environment Monitoring, Multimodal  
Transportation etc.  
Big Data and CPS Applications  
Information and Data Processing in CPS  
Sensor Networks for Large-scale Sensing and Actuating  
Sensor and Actuator Network Protocols, Models and Architectures in CPS  
Distributed, Self-organized, Autonomous CPS  
Multi-objective Optimization and Modeling for Heterogeneous Systems

### **Important Dates**

**Paper submission: February 25, 2015** (please use the easychar system)  
**Author Notification: March 24, 2015** (all notifications will be send via email)  
Camera Ready: April 15, 2015  
**Author Registration: April 15, 2015** (please check periodically the Registration  
section for more information)  
**IWOCPS Workshop: May 28-29, 2015**

The Workshop will take place at Faculty of Automatic Control and Computers,  
UPB

#### Submission Guidelines

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

Please send via web site (<https://www.easychair.org/conferences/?conf=cscs20> )

a draft version of your paper(s) with no more than 8 pages, A-4 sheets, Times

New Roman font, using the IEEE format:

<http://www.computer.org/portal/web/cscps/submission>).

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