

IWoCPS-2015

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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

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International Program Committee

Florin Filip (RO)

Doina Banciu (RO)

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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>).
