



Call for Papers

International Workshop on Cyber-Physical Systems

<https://fedcsis.org/iwcp>

Within the framework of

**FEDERATED CONFERENCE ON COMPUTER SCIENCE AND
INFORMATION SYSTEMS**

<https://fedcsis.org/2016/>

Gdansk, Poland, 11 - 14 September, 2016

Proliferation of computers in everyday life requires cautious investigation of approaches related to the specification, design, implementation, testing, and use of modern computer systems interfacing with real world and controlling their environment. Cyber-Physical Systems (CPS) are physical and engineering systems closely integrated with their typically networked environment. Modern airplanes, automobiles, or medical devices are practically networks of computers. Sensors, robots, and intelligent devices are abundant. Human life depends on them. Cyber-physical systems transform how people interact with the physical world just like the Internet transformed how people interact with one another.

The event is a continuation and extension of 2006-2010 Real-Time Software FedCSIS workshops and 2013-2015 IWCPs. The objective of the workshop is to assemble and develop a community with main interest in cyber-physical systems.

The workshop will accept papers in the following areas:

- **Control Systems**
 - embedded/networked/intelligent
 - wireless sensing/actuation
 - adaptive/predictive
- **Scalability/Complexity**
 - modularity
 - design methodology
 - legacy systems
 - tools
- **Interoperability**
 - concurrency
 - models of computation
 - networking
 - heterogeneity
- **Validation and Verification**
 - assurance
 - certification
 - simulation
- **Cyber-security**
 - intrusion detection
 - resilience
 - privacy
 - attack vectors
- **Applications of CPS**
 - robotics
 - transportation
 - military
 - medical
 - consumer
 - manufacturing
 - power systems
- **CPS Education**
 - curriculum development
 - web-based laboratories
 - academic courses
 - pedagogy issues

Important Dates:

- Draft paper submission: April 18, 2016
- Position paper submission: May 30, 2016
- Acceptance decision: June 13, 2016
- Final version of paper submission: July 04, 2016
- Final deadline for discounted fee: July 31, 2016
- Conference dates: September 11-14, 2016
- IWCPs Workshop Day: TBD

Paper Submission and Publication:

- Authors should submit draft papers (as Postscript, PDF or MSWord file).
- The total length of a paper should not exceed 10 pages IEEE style (including tables, figures and references). IEEE style templates are available at: https://fedcsis.org/2016/for_authors
- Papers will be refereed and accepted on the basis of their scientific merit and relevance to the workshop.
- Preprints containing accepted papers will be published on a USB memory stick provided to the FedCSIS participants.
- Only papers presented at the conference will be submitted for inclusion in the IEEE Xplore® database.
- Conference proceedings will be published in a volume with ISBN and ISSN numbers and posted at the conference WWW site.
- Conference proceedings will be indexed in *BazEkon* and submitted for indexation in: *Thomson Reuters - Conference Proceedings Citation Index, SciVerse Scopus, Inspec, Index Copernicus, DBLP Computer Science Bibliography and Google Scholar*
- Extended versions of selected papers presented during the conference will be published as Special Issue(s).
- Organizers reserve right to move accepted papers between the FedCSIS events.

IWCPS Gdansk 2016 - Steering Committee:

Wojciech Grega	<i>wgr@agh.edu.pl</i> , AGH University of Science and Technology, Poland
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IWCPS Gdansk 2016 - Program Committee (tentative):

Manfred Broy, Technische Universitaet Muenchen, Germany
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Franco Cicirelli, Università della Calabria, Italy
Matjaz Colnaric, University of Maribor, Slovenia
Alfons Crespo, Universitat Politecnica de Valencia, Spain
Frank Golatowski, University of Rostock, Germany
Luis Gomes, Universidade Nova de Lisboa, Portugal
Wolfgang A. Halang, Fernuniversitaet, Germany
Thomas B. Hilburn, Embry Riddle Aeronautical University, FL, USA
Janusz Kacprzyk, Systems Research Institute PAN, Poland
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Jacek Malec, Lund University, Sweden
Leo Motus, Tallinn University of Technology, Estonia
Simin Nadjim-Tehrani, Linköping University, Sweden
Jerzy W. Rozenblit, University of Arizona, AZ, USA
Ondrej Rysavy, Brno University of Technology, Czech Republic
Bo Sanden, Colorado Technical University, CO, USA
Igor Schagaev, London Metropolitan University, United Kingdom
Remzi Seker, Embry Riddle Aeronautical University, USA
Miroslav Sveda, Brno University of Technology, Czech Republic
Leszek Trybus, Politechnika Rzeszowska, Poland
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