

3rd Workshop on Challenges and New Approaches for Dependable and Cyber-Physical System Engineering (De-CPS 2016)

June 17th, 2016 - Collocated at Ada-Europe 2016

Pisa, Italy

<http://www.cister.isep.ipp.pt/ae2016/workshops>

Call for Papers

From the USA to Europe, there is a crescendo of industrial and research interest in Cyber-Physical Systems (CPS). One distinguishing trait of CPS is that they integrate software control and decision making with signals from an uncertain and dynamic environment. CPS often involve heterogeneous and hierarchical systems, and their design makes extensive use of models. The Horizon 2020 program framework of the European Union devotes considerable attention in the current work program to various challenges associated with developing, integrating and providing assurance concerning CPS. The workshop will gather together industrial practitioners and researchers concerned with dependable and Cyber-Physical Systems engineering, and use the momentum provided by the 21st International Conference on Reliable Software Technologies to foster further collaborative initiatives.

Topics

De-CPS 2016 seeks contributions addressing, but not limited to, the following topics:

- Industrial challenges and experience reports on co-engineering for multiple dependability concerns in CPS engineering.
- Modeling and analysis of Cyber-Physical Systems (CPS) and IoT
- Tools and methodologies to guarantee dependability-related properties, including real-time and mixed-criticality cohabitation
- Challenges posed for CPS design and verification by multi-core processors.
- Smart Factoring, Industry 4.x
- Platforms for IoT - CPS

Involved Projects 2016

- The H2020 project, INTO-CPS, Integrated Tool Chain for Model-based Design of Cyber-Physical Systems
- The ARTEMIS project, CONCERTO, Guaranteed Component Assembly with Round Trip Analysis for Energy Efficient High-integrity Multi-core Systems.
- The AMASS project, Architecture-driven, Multi-concern and Seamless Assurance and Certification of Cyber-Physical Systems
- FP7 project PROXIMA, Probabilistic real-time control of mixed-criticality multicore and manycore systems



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Silvia Mazzini, INTECS, Italy

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Alessandra Bagnato, SOFTEAM, France

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Important Dates

Submission deadline: 30-04-2016

Notification to authors: 13-5-2016

Workshop : Pisa, Italy, 17-06-2016

After-workshop final version: 15-9-2016

Publication in Ada User Journal: 12-12-2016

Paper Submission and Publication

Authors are invited to submit a position paper of 2 to 4 pages in length and IEEE-style format via easychair. The Organizing Committee will invite the authors of the accepted submissions to publish an extended version of their contribution in the Ada-User Journal.

Submission page:

<https://easychair.org/conferences/?conf=decps2016>

Authors can find some example templates and additional writing guidelines at http://www.ieee.org/conferences_events/conferences/publishing/templates.html#onferences/publishing/templates.htm!



PROXIMA