

Workshop on the Design, Modeling and Evaluation of Cyber Physical Systems (CyPhy'11)

www.cyphy.org

Held in conjunction with
The 7th International Wireless Communications and Mobile Computing Conference (IWCMC'11)
www.iwcmc.org

Turkey, Istanbul, July 5-8, 2011

Important Dates

Submission deadline	December 15, 2010
Notifications	March 1, 2011
Camera-ready	April 1, 2011
Conference	July 5-8, 2011

Scope

Cyber physical systems combine computing and networking power with physical components. As a result, they enable innovation in a wide range of domains, including robotics; smart homes, vehicles, and buildings; medical implants; and future-generation sensor networks.

CyPhy aims to bring together researchers and practitioners working in the areas of modeling, simulation, and evaluation of cyber-physical systems. In 2011, CyPhy will take a broad interpretation of these areas. The priority for this first instance of this workshop is to bring together expertise from as diverse set of disciplines as possible.

Topics of interest include, but are not limited to:

- Foundations: Hybrid automata and hybrid systems, models of computation, equation-based languages, modeling and simulation language
- Application domains: Case studies describing the development of industrial or research cyber-physical systems in domains such as robotics, smart systems (homes, vehicles, buildings), medical and healthcare devices, future-generation networks.
- Tools: Evaluation of novel research tools, comparisons of state of the art tools in industrial practice
- Methods: Specifications and evaluation of processes for model, simulation, and evaluation of new cyber-physical devices or designs

Submission Guidelines

Papers should be submitted electronically via the workshop web site. Submissions can be in the categories of 1) research papers, 2) tutorial papers, and 3) tool demonstrations. Research papers will be judged for technical novelty and scientific merit. Tutorial papers and tool demonstrations will be judged on clarity and accessibility.

Regular research papers and tutorial papers must not exceed 6 pages in IEEE Proceedings style. Tool demonstration papers must not exceed 3 pages in IEEE Proceedings style, and authors will be expected to present a live demonstration of the described tool at the workshop (tool papers should include an additional appendix of up to 6 extra pages giving the outline, screenshots, examples, etc. to indicate the content of the proposed live demo at the workshop).

Authors are to use the IEEE Templates for Conference Proceedings provided at http://www.ieee.org/conferences_events/conferences/publishing/templates.html.

To submit a paper, please follow the instructions provided at <http://edas.info/N9425>.

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Proceedings

Accepted papers will be included in the *IEEE Xplore* library. Selected papers may later on be invited for a journal special issue dedicated to CyPhy'11.