

IEEE International Conference on Complex Systems Engineering, ICCSE 2015

(in conjunction with the North American Modelica Users Group Meeting 2015)

November 9 to 11, 2015

University of Connecticut, Storrs, CT



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Conference Website:

<http://iccse.uconn.edu>

The Systems Engineering at the University of Connecticut (UConn) is organizing a three-day international conference on complex systems engineering (ICCSE 2015) on **November 9 to 11, 2015** at the UConn's main campus in Storrs, CT, USA. The conference is focused on model-based systems engineering (MBSE) of complex systems that are built from, and depend upon, the synergy of computational and physical components. These so-called cyber-physical systems (CPS) incorporate mechanical components, electrical components, networked embedded systems, and information infrastructure, thus representing the convergence of computation, communication, control and intelligence. These systems are desired to have learning and predictive capabilities such that they can adapt to changing situations. The conference will feature talks by plenary speakers from industry and academia, panel discussions, technical paper sessions, student poster sessions and industry exhibits. The conference goals are aligned with a recently established, **UTC Institute for Advanced Systems Engineering (UTC-IASE)**, in partnership with the United Technologies Corporation (UTC). The Institute serves as a hub for world-class research, project-based learning by globally-distributed teams of researchers, and industrial outreach activities.

Contributed Papers

Prospective authors are invited to submit papers that report novel research in complex systems engineering in topics related to energy, aerospace, automotive, manufacturing, robotics, and automation systems including:

- Model-based design
- Embedded Systems Design
- Diagnostics & Prognostics
- Formal Verification & Validation Methods
- Big Data Analytics
- Distributed Control
- Supervisory Control
- Smart Infrastructures
- Networked-control Systems
- Human-System Interactions
- Information Fusion
- Unmanned Systems

The papers should be submitted in PDF format with a maximum limit of six pages in standard IEEE format, including all figures and tables.

Important Dates

Paper submission deadline: **May 15, 2015**

Paper decision notification: **July 30, 2015**

Final paper submission deadline: **September 15, 2015**

Panel Discussions

The conference will host interactive panel discussions between established researchers and the audience and will target some key topics in research, curriculum, and industry applications of complex systems engineering problems.

Industry Exhibits and Tutorials

ICCSE 2015 will provide an opportunity for industry personnel and sponsors to showcase their products and research activities at several booths and through tutorials to interact with researchers on topics described above.