

7th International Workshop on Medical Cyber-Physical Systems

Medical Device Interoperability, Safety, and Security Assurance

April 11th, 2016 - Vienna, Austria

<http://workshop.medcps.org>

Invited Speakers

Stefan Schlichting
(Drägerwerk AG, Germany)

Rahul Mangharam
(UPenn, USA)

Pietro Valdastrì
(Vanderbilt University, USA)

Program Committee

David Arney
(UPenn, USA)

Ezio Bartocci (co-Chair)
(TU Wien, Austria)

Marco Beccani
(UPenn, USA)

Luca Bortolussi
University of Trieste, Italy

Flavio H. Fenton
(GeorgiaTech, USA)

Martin Leucker (co-Chair)
(University of Lübeck, USA)

Philip T Moore
(Lanzhou University, China)

Nicola Paoletti
(University of Oxford, USA)

Guido Sanguinetti
(University of Edinburgh, UK)

Scott A. Smolka
(Stony Brook University, USA)

Oleg Sokolosky
(UPenn, USA)

Volker Turau
(UPenn, USA)

Pietro Valdastrì
(Vanderbilt University, USA)

K. Venkatasubramanian
(Worcester Polytechnic Institute, USA)

Call for Papers

The Medical CPS workshop provides a forum for the presentation of research and development covering all aspects of high integrity medical devices, software, and systems, which is essential to support innovative, networked medical device systems to improve safety and efficiency in health care. The past four workshops have enjoyed a healthy participation of 35-40 attendees, and have provided a working forum for medical device specialists, including researchers, developers, and caregivers, from clinical environments, industry, research laboratories, academia, and government with the goal of advancing science, technology, and practice to overcome crucial issues with medical devices, software, and systems and challenges facing the design, manufacture, certification, and use of medical devices.

The topics to be covered in the workshop will range across all aspects of medical device software modeling and synthesis for safety, assurance, security and control, including but not limited to:

- ☐ Foundations for Integration of Medical Device Systems/Models
- ☐ Enabling Technologies for Future Medical Devices
- ☐ Distributed Control & Sensing of Networked Medical Device Systems
- ☐ Medical Device Plug-and-Play Ecosystem
- ☐ Patient Modeling & Simulation
- ☐ Embedded, Real-Time, Networked System Infrastructures for HCMDSS
- ☐ High Confidence Medical Device Software Development & Assurance
- ☐ Medical Practice-driven Models and Requirements
- ☐ Certification of HCMDSS and MD PnP

Paper Submission

Authors are invited to submit papers by February 14th, 2016 (short papers 4 pages, full papers 6 pages) and posters by March 15th, 2016 via easychair.org. Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this workshop. More about the submission process can be found on the website.

Important Dates

Submission Deadline (Short, Full Papers)	February 14 th , 2016
Submission Deadline (Posters)	March 15 th , 2016
Author Notification	March 1 st , 2016
Camera Ready Version	March 17 th , 2016
Early Registration	March 10 th , 2016
Workshop	April 11 th , 2016