

2015 Workshop on Embedded and Cyber-Physical Systems Education (WESE)

October 8, 2015, Amsterdam, Netherland

a part of Embedded Systems Week

Program, version 2015-10-02

09.00	Welcome	Martin Törngren, KTH Royal Institute of Technology, Sweden
09.05	Keynote 1	A First Course on Cyber-Physical Systems - The Flipped Classroom Experience Walid Taha, Halmstad University, Sweden
09.50	Break	
10.00	Paper session 1	A Multi-Robot Search Using LEGO Mindstorms - An Embedded Software Design Project Paula Herber and Verena Klös, University of Potsdam, Germany Preparing Students for Embedded Software Development: An RTOS-based Approach James Archibald and Doran Wilde, Brigham Young University, USA
11.00	Paper session 2	Teaching Industrial Automation: An Approach for a Practical Lab Course Falk Salewski and Rainer Schmidt, Muenster University of Applied Sciences, Germany Teaching Mixed-Criticality: Multi-Rotor Flight Control and Payload Processing on a Single Chip Henning Schlender et al
12.00	Lunch	
12.50	Keynote 2	Challenges of starting a new Embedded Systems Speciality in an established EE Dept. Michael Winokur, IAI, Israel
13.35	Paper session 3	Teaching the Internet of Things Concepts Farha Ali, Lander University, USA xCPS: A tool to eXplore Cyber Physical Systems Shreya Adyanthaya et al Education and training challenges in the era of Cyber-Physical Systems: beyond traditional engineering Martin Törngren et al
14.50	Break	
15.00	Paper session 4	Cyber-Physical System and Contract-Based Design - A Three Dimensional View Hadi Zaatiti, Daniela Cancila, CEA, France and Roberto Passerone, University of Trento A Development of Educational Robot Software for Master's Course Students Harumi Watanabe et al Experiences with a Project to Design Autonomous Slotcars in a Mechatronics Master's Prog. Peter Gober, Beuth Hochschule, Berlin Systems Engineering of Cyber-Physical Systems Education Program Jon Wade et al
16.30	Conclusions	Martin Edin Grimheden and Martin Törngren, KTH Royal Institute of Technology, Sweden
17.00	End	