CPS&IoT'2024 Summer School on Cyber-Physical Systems and Internet-of-Things
Budva, Montenegro, June 11-14, 2024

Schedule

Day 1, Tuesday 11 June:
09:00-09:15 Event Chairs and Special Guests
Title: Opening Ceremony of the CPS&IoT'2024 Summer School, and MECO'2024 and CPS&IoT'2024 Conferences
09:15-10:15 Tarek El-Ghazawi, George Washington University, US
                 Keynote: The Future of Computing: From ExaFLOPS to Exotic Processor Technologies
10.15-10.30 Break
10.30-11.00 Lech Jóźwiak, TU/e, **NL**
Title: Introduction to the CPS&IoT'2024 Summer School
11.00-13.00 Lech Jóźwiak, TU/e, **NL**
Title: Green CPS and IoT for Green World
13.00-14.00 Lunch Break
14.00-15.30 Nikhil Gaikwad and Sokol Kosta, Aalborg University, **DK**
Title: GPU virtualization service for AI at the Edge
15.30-16.00 Break
16.00-17.30 J Francesco Ratto, UNICA, and Claudio Rubattu, UNISS, **IT**
Title: AI Accelerators at the Edge
21.00 Gala Dinner
Day 2, Wednesday 12 June:
09.00-10.00 Nabil Abdennadher, Univ. of Applied Sciences, West. Switzerland, **CH**
Title: **Keynote: Towards a distributed Continuum Computing Platform for Federated Learning Based Self-Adaptive IoT Applications**
10.00-10.30 Break
10.30-12.00 Alberto Marchisio and Muhammad Shafique, New York University Abu Dhabi, **UAE**
Title: Energy-Efficient and Robust Deep Learning for Autonomous Systems
12.00-13.00 Lunch Break
13.00-16.00 Nabil Abdennadher
Title: Distributed Cloud Continuum Platform for Federated Learning Based Self-Adaptive IoT Applications
                 (hands-on and demo tutorial)
16.00-16.30 Break
16.30-18.00 T.B.D.
Title: T.B.D.
Day 3, Thursday 13 June:
09.00-10.00 Rainer Leupers, RWTH Aachen, DE
Title: **Keynote: Multicore Design Technologies and HW Security – From Academia to Industry**
10.00-10.15 Break
10.15-13.00 Rakshit Mittal, University of Antwerp, **BE** and Rizwan Parveen, Telecom Paris, **FR**
Title: Modeling a Cruise-Control System Using Open Modelica and Verifying Safety Requirements using UPPAAL (hands-on tutorial)
13.00-14.00 Lunch Break
14.00-17.00 Dominique Blouin, Telecom Paris, and Anish Bhobe, Institut Polytechnique de Paris, **FR**
Title: Modeling and Synthesizing a Cruise-Control System with AADL using RAMSES (hands-on tutorial)
17.00-17.30 Break
17.30-19.00 Samir Ouchani, CESI, **FR**
Title: Smart CPS: Ensuring Trustworthiness in Autonomous Decisions through Formal Methods **Day 4,**
Friday 14 June:
09.00-10.30 Christoph Schmittner, AIT, **AT**
Title: Cyber-Physical System Security: Automated Risk Management with ThreatGet
10.30-12.00 Morayo Adedjouma and Luis Palacios, CEA, **FR**
Title: Trustworthy Design and V&V of AI-based systems: Case of a Drone Application (includes demo and hands-on)
12.00-13.30 Lunch Break
13.30-15.00 Zakaria Chihani, CEA, **FR**
Title: Trustworthy AI: methods and tools
15.00-16.30 Radovan Stojanovic, University of Montenegro and MECOnet, **ME**
Title: Design of performance and energy efficient nodes for smart systems
16.30-17.00 Break
17.00-18.30 Andrej Škraba, University of Maribor, **SI**
Title: Overview of Several CPS&IoT Prototypes
18.30-19.00 Closing of the CPS&IoT'2024 Summer School

+ Free participation in sessions of the CPS&IoT'2024 Conference and MECO'2024 Conference Summer School participants are expected to come with their own laptops. Internet access will be guaranteed.

Day 5, Saturday 15 June: Excursion possible (excursion fee is not included in the summer school fee)