

**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**

**14.00-15.00** Lech Jóźwiak, TU/e, **NL**

**Title:** Quality-driven Design of Cyber-Physical Systems

**15.00-16.30** Nikhil Gaikwad and Sokol Kosta, Aalborg University, **DK** and Ralf Lübben, Flensburg Univ. of Appl. Sciences, **DE**

**Title:** GPU virtualization service for AI at the Edge

**16.30-17.00 Break**

**17.00-18.30** 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** Alberto Marchisio and Muhammad Shafique, New York University Abu Dhabi, **UAE**

**Title:** Design Space Exploration of Efficient Quantum Machine Learning Systems

**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 and Hans Vangheluwe, 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 Bhoje, 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)