CPS&IoT'2024 Summer School on Cyber-Physical Systems and Internet-of-Things

Budva, Montenegro, June 11-14, 2024, ROOM3 (SS)

Schedule (in-venue and on-line)

Zoom link
https://us06web.zoom.us/j/8342653096?pwd=ZUFOaHppdXVkc1lWRDNTSnNIYmF4UT09

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**
09:30-10:30 Tarek El-Ghazawi, George Washington University, US
Keynote: **The Future of Computing: From ExaFLOPS to Exotic Processor Technologies**
10.30-11.00 Break
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
13.00-15.00 Lunch Break
Title: Quality-driven Design of Cyber-Physical Systems
15.00-17.00 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
17.00-17.30 Break
17.30-19.30 Francesco Ratto, Federico Manca and Claudio Rubattu, UNISS, **IT**
Title: Adaptive CNN execution on Edge FPGAs
21.00 Dinner

Day 2, Wednesday 12 June:

09.00-10.30 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**
10.30-11.00 Break
11.00-13.00 Alberto Marchisio and Muhammad Shafique, New York University Abu Dhabi, **UAE**
Title: Energy-Efficient and Robust Deep Learning for Autonomous Systems
13.00-14.00 Lunch Break
14.00-17.00 Nabil Abdennadher
Title: Distributed Cloud Continuum Platform for Federated Learning Based Self-Adaptive IoT Applications (hands-on and demo tutorial)
17.00-17.30 Break
17.30-18.30 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:
09.00-10.30 Rainer Leupers, RWTH Aachen, DE
Title: **Keynote**: **Multicore Design Technologies and HW Security – From Academia to Industry**
10.30-11.00 Break
11.00-13.30 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)
13.30-14.30 Lunch Break
14.30-17.00 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: (The Break will be within presentations)
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)
12.00-13.00 Lunch Break
13.00-14.30 Zakaria Chihani, CEA, **FR**
Title: Trustworthy AI: methods and tools
14.30-16.30 Andrej Škraba, University of Maribor, **SI**
Title: Overview of Several CPS&IoT Prototypes
16.30-18.30 Radovan Stojanovic, University of Montenegro and MECOnet, **ME**
Title: An appendix to the design of usable and low-cost nodes for biomedical applications

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)

ZOOM LINK FOR SUMMER SCHOOL:
https://us06web.zoom.us/j/8342653096?pwd=ZUFOaHppdXVkc1lWRDNTSnNIYmF4UT09

More:
https://mecoconference.me/ss-cpsiot2024/