

**CPS&IoT'2023 Summer School on
Cyber-Physical Systems and Internet-of-Things
Budva, Montenegro, June 6-10, 2023**

Schedule

Day 1, Tuesday 6 June:

09:00-09:15 Event Chairs and Special Guests

Title: **Opening Ceremony of the CPS&IoT'2023 Summer School, and MECO'2023 and CPS&IoT'2023 Conferences**

09:15-10:15 Andreas Burger, Robert Bosch GmbH, **DE**

Keynote: Future Cyber-Physical Systems – between Digital Twins and Metaverse

10.15-10.30 Break

10.30-11.00 Lech Jóźwiak, TU/e, **NL**

Title: Introduction to the CPS&IoT'2023 Summer School

11.00-12.30 Lech Jóźwiak, TU/e, **NL**

Title: Green CPS and IoT for Green World

12.30-14.00 Lunch Break

14.00-15.30 Sakir Sezer, NVIDIA, **UK**

Title: DPU Technology: Redefining next generation Datacenter Security

15.30-17.00 Jens Hagemeyer, Uni-Bielefeld, **DE**

Title: VEDLIoT – Accelerated AIoT

17.00-17.30 Break

17.30-19.00 Aizea Lojo and Juan Besga, Ikerlan, **ES**; Iñaki Paz, LKS, **ES**; Gianluca Brilli and Paolo Burgio, from Unimore, **IT**;
Martin Matschnig, Siemens, **AT**

Title: FRACTAL: A Cognitive Computing Platform Node for the Edge

21.00 Gala Dinner

Day 2, Wednesday 7 June:

09.00-10.00 Jürgen Becker, KIT, **DE**

Title: **Keynote: Embedded reliable HPC enabling Automotive & IoT Intelligence**

10.00-11.30 Mario DIAZNAVA, ST Grenoble, **FR**

Title: ANDANTE : AI for New devices and Technologies at the Edge

11.30-11.50 Break

11.50-13.20 Tobias Dörr and Florian Schade, KIT, and Alexander Ahlbrecht, DLR, **DE**

Title: Simulation-based development of networked avionics systems using the XANDAR toolchain

12.20-14.10 Lunch Break

14.10-17.10 Dominique Blouin, Telecom Paris, and Anish Bhoje, Institut Polytechnique de Paris, **FR**
Rakshit Mittal, University Antwerpen, **BE**

Title: Embedded Systems Modeling, Analysis and Automatic Code Generation with AADL and RAMSES (hands-on)

17.10-17.30 Break

17.30-19.00 Hector Posadas, Jose Luis Vazquez and Daniel Suarez, TEISA/UNICAN, **ES**

Title: Offloading and Reconfiguration of Functional Components in Embedded Hardware Resources: Application to AI Components

Day 3, Thursday 8 June:

09.00-10.00 Naim Dahnoun, University of Bristol, **UK**

Title: **Keynote: t.b.d.**

10.00-10.30 Break

10.30-13.30 Dimitris Karadimas, AVN Innovative Technology Solutions, **CY**

Title: XANDAR: CI/CD automations for complex pipelines with hardware in the loop

13.30-14.30 Lunch Break

14.30-17.00 Morayo Adedjouma and Réda Nouacer, CEA, **FR**

Title: From Knowledge-based to Model-based Engineering of embedded intelligence and trust in CPS

17.00-17.30 Break

17.30-19.00 Zakaria Chihani and Réda Nouacer, CEA, **FR**

Title: Towards Characterizing AI Trustworthiness

Day 4, Friday 9 June:

09.00-10.30 Christoph Schmittner, AIT, **AT**

Title: Security Engineering for Aquaponic – Challenges between Industrial Control and Farming

10.30-12.00 Radovan Stojanovic, University of Montenegro and MECOnet, **ME**

Title: Design of performance and energy efficient nodes for smart systems

12.00-13.30 Lunch Break

13.30-15.00 Ramiro Samano Robles, ISEP, **PT**

Title: Evolution and evaluation of wireless technologies and standards towards the convergence of 5G/6G and IoT

15.00-16.30 Andrej Škraba, University of Maribor, **SI**

Title: Overview of Several CPS&IoT Prototypes: Wheelchair, Group Heart Rate Monitoring, PID DC Motor Control

16.30-17.00 Break

17.00-18.30 Presenter t.b.d.

Title: SMART4ALL project: Customized Low-Energy Computing for CPS

18.30-19.00 Closing of the CPS&IoT'2023 Summer School

+ Free participation in sessions of the CPS&IoT'2023 Conference and MECO'2023 Conference

Summer School participants are expected to come with their own laptops. Internet access will be guaranteed.

Day 5, Saturday 10 June: Excursion possible (excursion fee is not included in the summer school fee)