

**CPS&IoT'2025 Summer School on
Cyber-Physical Systems and Internet-of-Things
Budva, Montenegro, June 10-14, 2025**

Schedule

Day 1, Tuesday 10 June:

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

Title: Opening Ceremony of the CPS&IoT'2025 Summer School, and MECO'2025 and CPS&IoT'2025 Conferences

09:15-10:15 Wolfgang Ecker, Infineon and TU Munich, DE

Keynote: How to Circumvent a RISC-V Dead End

10.15-10.30 Lech Jóźwiak, TU/e, NL and Radovan Stojanović, University of Montenegro, ME

Title: Introduction to the CPS&IoT'2025 Summer School

10.30-11.00 Break

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 Said Hamdioui, TU Delft, NL

Title: The Future of Energy-Efficient Computing: Beyond CMOS and Von Neumann

15.30-17.00 Natalie Simson & Wolfgang Ecker, DE

Title: RISC-V vs. ARM

17.00-17.30 Break

17.30-19.00 Natalie Simson & Wolfgang Ecker, DE

Title: RISC-V vs. ARM

21.00 Gala Dinner

Day 2, Wednesday 11 June:

09.30-10.30 Reiner John, AVL, AT

Title: Keynote: AI+ — Self-Awareness as the Key to Resilience, Efficiency, and ROI

10.30-11.00 Break

11.00-12.30 Reiner John, AVL, AT

Title: Applications of Quantum Sensing and AI in Real-Time Edge Computing Systems (lecture/hands-on)

12.30-14.00 Lunch Break

14.00-17.00 Nabil Abdennadher, Univ. of Applied Sciences, West. Switzerland, CH

Title: Towards a decentralized Federated Learning based edge-to-edge Continuum Computing Framework

17.00-17.30 Break

17.30-19.00 Iryna DE ALBUQUERQUE SILVA, CEA, FR

Title: Aidge: Embedded AI Open Source Platform

Day 3, Thursday 12 June:

09.00-10.30 Samir OUCHANI, CESI, FR

Title: Designing Trustworthy Smart Systems: Bridging Artificial Intelligence and Formal Methods

10.30-11.00 Break

11.00-12.30 Zakaria Chihani, CEA, FR

Title: Trustworthy AI: Methods & Tools

12.30-13.30 Lech Jóźwiak, TU/e, NL

Title: Quality-driven Design of Cyber-Physical Systems

13.30-14.30 Lunch Break

14.30-16.30 Hans Vangheluwe and Joachim Denil, University of Antwerp, BE

Title: General systems engineering concepts (for CPS) and General modelling and simulation concepts

16.30-17.30 Joachim Denil, University of Antwerp, BE

Title: Requirements Modelling for Testing and Run-time Monitoring

17.30-18.00 Break

18.00-19.00 Rakshit Mittal and Hans Vangheluwe, University of Antwerp, BE

Title: Modelling and simulation of physical systems using OpenModelica (lecture/hands-on)

Day 4, Friday 13 June:

09.00-10.00 Rakshit Mittal and Hans Vangheluwe, University of Antwerp, BE

Title: Calibration and control of physical systems using OpenModelica (lecture/hands-on)

10.00-12.00 Joeri Exelmans and Hans Vangheluwe, University of Antwerp, BE

Title: Modelling, simulation, and synthesis of discrete-event systems using Statecharts (lecture/hands-on)

12.00-13.00 Lunch Break

13.00-16.30 Anish Bhobe, Dominique Blouin, and Yara Hallak, Telecom Paris, FR

Title: Modelling, verification, and synthesis of embedded cyber-physical systems using AADL and RAMSES (lecture/hands-on)

16.30-17.00 Break

17.00-18.30 Radovan Stojanovic, University of Montenegro and MECOnet, ME

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

18.30-19.00 Closing of the CPS&IoT'2025 Summer School

+ Free participation in sessions of the CPS&IoT'2025 Conference and MECO'2025 Conference

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

Day 5, Saturday 14 June: Excursion possible (excursion fee is not included in the summer school fee)