



**CPS&IoT'2021 Summer School on
Cyber-Physical Systems and Internet-of-Things
Budva, Montenegro, June 7-10, 2021**



Schedule

Day 1, Monday 7 June:

09:00-10:00 Event Chairs and Special Guests

Title: Opening Ceremony of the CPS&IoT'2021 Summer School, and MECO'2021 and CPS&IoT'2021 Conferences
Opening Keynote by Konstantin Novoselov, Nobel Laureate in Physics 2010, NUS, SG

10.00-11.00 Ioannis Pitas, Aristotle University of Thessaloniki, GR

Title: Keynote: Privacy Protection, Ethics, Robustness and Regulatory Issues in Autonomous Systems

11.00-11.30 Break

11.30-12.00 Lech Józwiak, TU/e, NL

Title: Introduction to the CPS&IoT'2021 Summer School

12.00-13.30 Lech Józwiak, TU/e, NL

Title: Design of Green CPS and IoT

13.30-15.00 Lunch Break

15.00-16.30 Mario Kovač, FER, HR

Title: European Processor Initiative: Cornerstone of European HPC and eHPC strategy

16.30-17.00 Break

17.00-18.00 Nicola Capodieci, University of Modena and Reggio Emilia, IT

Title: Timing predictability in GPGPU computing for ADAS: challenges and future directions in real-time embedded platforms

21.00 Gala Dinner

Day 2, Tuesday 8 June:

09.00-10.00 Benoît De Dinechin, KAELEY Inc., FR

Title: Keynote: Engineering a Manycore Processor for Edge Computing

10.00-11.00 Danilo Mandić, Imperial College, London, UK

Title: Keynote: Hearables: From in-ear recording of vital signs and neural function to doctorless hospitals

11.00-11.30 Break

11.30-13.00 Kim Guldstrand Larsen and Marius Mikučionis, AAU, DK

Title: Learning, Analysis, Synthesis and Optimization of Cyber-Physical Systems

13.00-14.00 Lunch Break

14.00-15.30 Radu Grosu, TU-WIEN, AT

Title: Machine Learning and Control of CPS/IoT

15.30-17.00 Muhammad Shafique, NYU-AD, UAE, Muhammad Abdullah Hanif, TU-WIEN, Alberto Marchisio, TU-WIEN, AT

Title: Energy-Efficient Deep Learning at the Edge: A Cross-Layer Approach

17.00-17.30 Break

17.30-19.00 Daniel Madronal Quintin, UNISS, Giacomo Valente, UNIVAQ, Francesco Ratto, UNICA, IT

Title: Dataflow-Based Toolchain for Adaptive Hardware Accelerators Deployment and Monitoring

Day 3, Wednesday 9 June:

09.20-10.00 Hui Cao, Head of Policy and Strategy of Huawei's EU office

Title: Keynote: 5G Connectivity: the Key to Success for European Industry

10.00-11.30 Eugenio Villar, TEISA/UNICAN, ES

Title: Model-Driven Design of CPSoSs: Application to drone-based services

11.30-11.45 Break

11.45-13.15 Stefanos Skalistis, Raytheon Technologies, Ireland

Title: Building adaptively fault-tolerant avionics systems

13.15-14.15 Lunch Break

14.15-15.45 Abdelhakim Baouya and Salim Chehida, University Grenoble-Alpes, FR

Title: Design and verification of collaborative robots system

15.45-17.15 Aris Lalos, Christos Koulamas and Dimitrios Serpanos ISI, GR

Title: Secure and Efficient Industrial IoT: Architectures and Technologies

17.15-17.30 Break

17.30-19.00 Radovan Stojanovic, University of Montenegro and MECOnet, ME

Title: Challenging issues in cost effective wearable and IoT medical devices with emphasis on Covid19 detection

Day 4, Thursday 10 June:

09.00-11.00 Alberto Cardoso, António Dourado, Jorge Henriques, Paulo Gil, University of Coimbra, PT

Title: Intelligent data analysis towards predictive maintenance in cyber-physical systems

11.00-11.30 Break

11.30-13.00 Christoph Schmittner, AIT, AT

Title: Security engineering for smart farming – from automated vehicles to sensor networks.

13.00-15.00 Lunch Break

15.00-16.30 Slawomir Stanczak and Zoran Utkovski, HHI/FRAUNHOFER, DE

Title: Modern Random Access Protocols for Massive Connectivity in the Internet of Things

16.30-17.00 Closing of the CPS&IoT'2021 Summer School

Day 5, Friday 11 June: Excursion possible (excursion fee is not included in the summer school fee; on own cost of participants) + Free participation in sessions of the CPS&IoT'2021 Conference and MECO'2021 Conference

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