



# MECO 2019

## 8<sup>th</sup> Mediterranean Conference on Embedded Computing

and

## 7<sup>th</sup> EUROMICRO/IEEE Workshop on Embedded and Cyber-Physical Systems (ECYPS 2019)

Montenegro, Budva, 10<sup>th</sup>-14<sup>th</sup> June 2019

### ACCOMPANYING:

- Workshop on Education and Pedagogy for Computer Science and Electronic and Electrical Engineering
- Advanced Training in High Performance Embedded Systems (HPEST)
- 2nd Workshop on Recent Advances in Computational and Engineering Methods in Biomedicine and Rehabilitation (CMBR)
- Projects dissemination
- Works in Progress Session
- Outstanding Keynotes Sessions
- Industry Presentations



### TOPICS:

#### MECO

- Software and Hardware Architectures for Embedded Systems
- Systems on Chip (SoCs) and Multicore Systems
- Communications, Networking and Connectivity
- Sensors and Sensor Networks
- Mobile and Pervasive/Ubiquitous Computing
- Distributed Embedded Computing
- Real-Time Systems
- Adaptive Systems
- Reconfigurable Systems
- Design Methodology and Tools
- Application Analysis and Parallelization
- System Architecture Synthesis
- Multi-objective Optimization
- Low-power Design and Energy Management
- Hardware/Software Simulation
- Rapid prototyping
- Testing and Benchmarking
- Micro and Nano Technology
- Internet of Things
- Organic/Flexible/Printed Electronics
- MEMS
- VLSI Design and Implementation
- Microcontroller and FPGA Implementation
- Embedded Real-Time Operating Systems
- Cloud Computing in Embedded System Development
- Digital Filter Design
- Digital Signal Processing and Applications
- Image and Multidimensional Signal Processing
- Embedded Systems in Multimedia and Communications
- Consumer Electronics
- Wearable Health Care
- Emergency and Disaster Management
- Identification and Supervision Systems
- Industrial, Bio-Medical, Automotive and Avionic Systems
- Embedded Robotics, Instrumentation and Measurement
- Embedded Systems in Energy Efficiency
- Internet of Things (IoT)
- and other related fields...

#### ECYPS

- advanced applications and case studies of systems in consumer appliances, healthcare, personal assistance, environmental and safety monitoring, industrial and leaving-space automation, aerospace, aviation, transportation, automotive, energy generation and control, infrastructure, communications, tele-operation and robotics, etc.
- mobile, autonomous, wearable and implantable systems
- application analysis, characterization and parallelization for high-performance and low-energy computing
- multi-domain modeling, analysis, synthesis, simulation, integration and validation of heterogeneous systems
- multi-objective and multi-domain optimization and co-design of heterogeneous systems
- MPSOCs, sensors, actuators, MEMS, their integration and packaging sensor-based (distributed, networked) monitoring and control sub-system arrangement and communication in complex heterogeneous (3D) systems
- safety, security and reliability of complex heterogeneous systems...etc...

### DEADLINES:

**January 31, 2019**, paper submission deadline  
**February 25, 2019**, acceptance/rejection notification  
**March 10, 2019**, final paper submission  
**May 10, 2019**, registration deadline

#### QUALITY:

With an excellent citation score and strong keynote programme featuring outstanding, multidisciplinary speakers, including Nobel laureates, the conference has become a major event in the computing systems calendar. MECO is a conference of highest scientific and professional recognition, **INDEXED** in the distinguished Databases or Digital Libraries as **IEEE xPlore**, **SCOPUS**, **WoS**, **Microsoft Academic** etc. The outstanding papers in extended version will be invited for publication in **Elsevier's SCIE journal Microprocessors and Microsystems**, operated by our strategic partner **EUROMICRO**.

#### KEYNOTES

**Jerome Friedman, MIT, Nobel Laureate** (tbc), J. Smith, Berkely, Veljko Miliutinovic, University of Indiana, Bloomington, Sierd Cloetingh, President of COST and President of Academia Europaea, Eva Kondrosi, VicePresident of ERC, Gerhard Klimeck, Purdue University, Kunle Olokotun, Stanford, Borko Furht, FAU and NSF, Florida, Anton Kos, University of Ljubljana, Ivona Brandic, Technical University of Vienna

#### SUBMISSION:

Prospective authors are invited to submit full-length, 4-pages papers, strictly according to the IEEE Conference Standards and via: Conference website. Short papers for section Works in Progress or Project dissemination presentations can be also submitted.

#### REGISTRATION:

MECO, ECYPS and Accompanied Events are low budget, aimed to encourage participation of young scientists and colleagues from developing countries with strong synergy with most prestigious universities, all without diminishing the quality. There are several options for fee (see conference website).

#### PLACE AND ACCOMMODATION

Budva is a pearl of Adriatic. The coastal area around Budva, called the Budvanska rivijera, is the centre of Montenegro's tourism, and is well known for its sandy beaches, diverse nightlife, and examples of Mediterranean architecture. Budva is 3,500 years old, which makes it one of the oldest settlements on the Adriatic Sea coast. Budva is very accessible by plane. Podgorica Airport is about 65 km from Budva, while distance from Tivat Airport is about 20km and Dubrovnik Airport 65km. The Conference will take a place in Hotel Budva \*\*\*\*\* that is situated in the heart of the city. There are many other hotels and accommodations nearby Hotel Budva in prices for every one.

#### ORGANISERS AND SUPPORTERS

University of Montenegro, IEEE Serbian and Montenegrin Section, Ryazan State Radio Engineering University (RSREU), University of Belgrade - School of Electrical Engineering, Technical University Eindhoven University of Zatreb - Faculty of Electrical Engineering and Computing, Euromicro, Montenegrin Ministry of Science, Montenegrin Association for New Technologies (MANT), Mediterranean Excellence in Computing and Ontology (MECOnet), Cikom LTD, Plantaze, Elkon, Element, MARDS.

