



# ECYPS'2015

3<sup>rd</sup> EUROMICRO/IEEE Workshop

on

Embedded and Cyber-Physical Systems

Montenegro • Budva • Hotel Slovenska Plaža • June 14-18, 2015

<http://embeddedcomputing.me>

ECYPS'2015 - the 3<sup>rd</sup> EUROMICRO/IEEE Workshop on Embedded and Cyber-Physical Systems will be held in the scope of MECO'2015 - the 4<sup>th</sup> Mediterranean Conference on Embedded Computing, in Budva Montenegro, June 14-18, 2015.

Cyber-physical systems (CPS) are smart compound systems engineered through seamless integration of embedded information processing sub-systems and physical sub-systems. The vision of smart systems connected and collaborating through various interfaces and communication media to form the global Internet of Things (IoT) is not a science-fiction anymore, but is quickly becoming an actual reality. The future smarter and more fit to use CPS will have important applications in virtually all economic and social segments, and their economic and societal impact will be enormous. Therefore, major investments are being made worldwide to research and develop the CPS technology.

ECYPS'2015 is devoted to CPS for modern highly-demanding applications that require high-performance and/or low energy consumption, as well as, high safety, security and reliability. It addresses the architectures, technology, design methodology and EDA tools for such systems. Its target participants are academic researchers and teachers, industrial researchers, developers and decision-makers, and Ph.D. students. It gives an excellent opportunity to disseminate fresh research results from European, international and other R&D projects. **The topics of main interest include the following:**

- ✦ *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*

**Budva:** Budva is a small town located at the Adriatic Sea coast of Montenegro and established 3500 years ago. It is a popular touristic and vacation destination. Budva's main attractions are the charm of its Old Town, its beautiful natural environment, 35 beautiful clean sandy beaches, and proximity to many famous touristic attractions as Kotor, Boka Kotorska, Sveti Stefan, Dubrovnik, and several national parks. It is also a place of various theatre and music events, divers night-live, and many restaurants with excellent mediterranean kitchen.

**Submission of papers:** Prospective authors are invited to submit full-length, four-page papers via MECO-2015/ECYPS'2015 website <http://embeddedcomputing.me>, strictly according to the IEEE Conference Standards. Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

**Fees:** To encourage broad participation of young researchers and colleagues from low income countries the registration fees are very low. Early full: 250 €, Early student: 150€, Early without paper: 100 €Late full: 300 €, Late student: 200 €, Late without paper: 120 €. ECYPS'2014 registration entitles to participation in both: ECYPS'2014 and MECO'2014.

#### Important Deadlines:

**January 23, 2015, Paper submission deadline**

March 02, 2015, Acceptance/rejection notification

March 23, 2015, Final paper submission and author registration deadline

April 27, 2015, Registration deadline



#### Useful Links

University of Montenegro: <http://www.ucg.ac.me/eng/>

MANT association: <http://mant.me/>

Hotel Slovenska Plaža\*\*\*\*:

<http://www.hgbudvanskariivijera.com/index.php/en/hotel-slovenska-plaza>

Budva: <http://en.wikipedia.org/wiki/Budva>

Montenegro: <http://en.wikipedia.org/wiki/Montenegro>



#### Workshop Chairs

Lech Józwiak, Eindhoven University of Technology, Netherlands

Radovan Stojanović, University of Montenegro, Montenegro

#### Scientific Committee | Editorial

Koen Bertels, Delft University of Technology, Netherlands

Victor Goulart, Kyushu University, Japan

Miguel Figueroa, University of Concepcion, Chile

Erwin Grosspietsch, Euromicro, Germany

Ilker Hamzaoglu, Sabanci University, Turkey

Lech Józwiak, Eindhoven University of Technology, Netherlands

Paris Kitsos, Open Hellenic University, Patras, Greece

Akash Kumar, National Univ. Singapore, Singapore

Francesco Loporati, University of Pavia, Italy

Menno Lindwer, Intel, Netherlands

Jan Madsen, Technical University of Denmark, Denmark

Veljko Milutinovic, University of Belgrade, Serbia

Nadia Nedjah, State University of Rio de Janeiro, Brazil

Smail Niar, University of Valenciennes, France

Horácio .C Neto, Technical University of Lisbon, Portugal

Alex Orailoglu, University of California at San Diego, USA

Sri Parameswaran, UNSW, Australia

Adam Postula, University of Queensland, Australia

Peter Puschner, Vienna Univ. of Technology, Austria

Daide Quaglia, University of Verona, Italy

Majid Sarrafzadeh, UCLA, California, USA

Radovan Stojanović, University of Montenegro, Montenegro

Ioannis Sourdis, Chalmers Univ. of Technology, Sweden

Alice M. Tokarnia, State University of Campinas, Brazil

Heinrich T. Vierhaus, Brandenburg Univ. of Technology, Germany

Eugenio Villar, University of Cantabria, Spain

Arda Yurdakul, Bogazici University, Turkey

#### Organizing Committee

Budimir Lutovac, University of Montenegro

Dmitry Tarasov, MANT, Montenegro

Sasa Knezevic, MANT Montenegro



#### Supporters and Sponsors:



Ministry of Science of Montenegro