EWME 2014 is the tenth Workshop on microelectronics education to take place in Europe. The previous ones were held in Grenoble (1996, 2012), Noordwijkerhout (1998), Aix-en-Provence (2000), Vigo (2002), Lausanne (2004), Stockholm (2006), Budapest (2008), and Darmstadt (2010). EWME is held every second year in Europe, while MSE (Microelectronic Systems Education) is held every other year in the USA.

EWME 2014 will take place in Tallinn whose medieval Old Town is known around the world for its well-preserved completeness and authentic Hanseatic architecture. Enchanting atmosphere, rich cultural scene, beautiful surroundings and plenty of galleries, cafes and restaurants to choose from: there is something for everyone in Tallinn. EWME 2014 is organized by the Department of Computer Engineering of Tallinn University of Technology.

The proceedings of EWME 2014 will be published in IEEEExplore (pending).

The purpose of the workshop is to provide a forum to exchange ideas and to discuss developments and challenges in research and education on microelectronics, microsystems and related areas. Topics of interest include (but are not limited to):

- Industrial outlook and projects
- Microelectronics teaching in the future
- Emerging fields in design and technology
- New concepts in teaching
- Multimedia in microelectronics education
- Globalization and international education
- Design and technological innovations
- Effects of the Bologna Process on microelectronics education in Europe
- Long-distance and continuous microelectronics education
- Novel curricula on micro- / nanoelectronics education
- Novel courses, laboratories and design projects
- Industry-university collaboration on education
- Entrepreneurship in micro- and nanoelectronics
- Industrial roadmaps and microelectronics education
- Exchange programs (compatibility of curricula, ...)
- Multi- and many-core embedded systems and software in new curricula
- MOOCs: Massive Open Online Courses and microelectronics education

Special Session “VLSI Design Education in the 21st Century”

The special session “VLSI Engineering Education in the 21st Century”, will explore innovative approaches to the current VLSI curriculum, which is supposed to render it fully up-to-date and to prepare the next generation of engineers satisfying the modern requirements. Turn for more!

Important Dates

Submission deadline (extended): February 22, 2014
Notification of acceptance: March 15, 2014
Camera-ready deadline: April 5, 2014

Submissions:
Authors are invited to submit original papers which contain at least two pages and at most six pages in standard IEEE two-column format; full paper submissions are preferred. Contributions have to be submitted electronically through the workshop website at www.ati.ttu.ee/ewme2014
Special Session about VLSI Design Education in the 21st Century

VLSI Design education is on demand today. However, a number of critical drawbacks in the contemporary VLSI Design education must be overcome. The following problems are among them:

1) The VLSI industry requires engineers to be innovative, entrepreneurial, collaborative, and able to work globally - while there are no educational programs that prepare students to meet these new requirements.

2) The current VLSI curriculum absorbs more and more industry oriented and intensively changing topics of the VLSI design - while traditional fundamental and theoretical subjects of the curriculum lose their popularity and even disappear from the curriculum.

3) Nowadays, an engineering student is a networked student accustomed to resources and tools of the new digital reality; such a student has a difficulty to study any engineering curriculum in its traditional form. Moreover, in the new conditions, a traditional role of an engineering teacher as the main content provider also becomes questionable.

The special session "VLSI Engineering Education in the 21st Century", devoted to the above problems, will explore innovative approaches to the current VLSI curriculum, which is supposed to render it fully up-to-date and to prepare the next generation of engineers satisfying the modern requirements.

Program Committee:

Pavel Tvrđík, Czech Technical University in Prague
Ilya Levin, Tel Aviv University, Israel
Hana Kubátová, Czech Technical University in Prague
Petr Fišer, Czech Technical University in Prague
Samar Yanovskaya, Tomsk State University of Architecture and Building, Russia
Jan Schmidt, Czech Technical University in Prague
Benjamin Abramov, Afeka Engineering College, Israel
Vadim Talis, Jerusalem Engineering College, Israel

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