



Dependable Systems Design

<http://credes.ttu.ee>

June 2-3, 2011. Tallinn University of Technology, Estonia

Program

June 2, Thursday

- 9:00 **System level design for dependability and reliability**
Gert Jervan, TUT, Tallinn
- 10:30 Coffee
- 10:50 **Clocking and Timing in Fault-Tolerant Systems on Chip**
Andreas Steininger, TUW, Vienna
- 12:20 Lunch
- 13:20 **Scalable dependable SoC Architectures based on Networks-on-Chip**
Thomas Hollstein, TUT, Tallinn
- 14:50 Coffee
- 15:10 **Bottlenecks in Hardware Design and Design Automation. (Hardware Synthesis: No Pain, No Gain)**
Peeter Ellervee, TUT, Tallinn
- 16:40 Coffee
- 17:00 **3 x Student presentations**
- 19:00 Pub

June 3, Friday

- 9:00 **Self Repair Technology for Logic Circuits – Architecture, Overhead and Limitations**
Heinrich Theodor Vierhaus, BUT, Cottbus
- 10:30 Coffee
- 10:50 **Self-testing and self-repairing processors**
Mario Schölzel, BUT, Cottbus
- 12:20 Lunch
- 13:20 **3 x Student presentations**
- 13:50 **Fault modeling and diagnosis in digital systems**
Raimund Ubar, TUT, Tallinn
- 15:20 Coffee
- 15:40 **Techniques for automated localization and correction of design errors**
Jaan Raik, TUT, Tallinn

June 4, Saturday

Optional social activity "XXX Tallinn Old Town Days"
(<http://www.vanalinnapeavad.ee>)

The Summer School is organized for young researchers, PhD and MSc students. It provides an opportunity to learn in a condensed form the state-of-the-art of the approaches for dependable systems design. Reputed experts from European universities will give eight lectures covering the main challenges of reliability and fault tolerance in today's embedded systems. Moreover, the Summer School will give the participating students an opportunity to present their research and receive feedback. The Summer School is organized by the Centre of Research Excellence in Dependable Embedded Systems (CREDES) at Tallinn University of Technology.

As a part of the Summer School there will be arranged a ZUSYS Workshop sponsored by the German Academic Exchange Service (DAAD). The objective of the ZUSYS Workshop is to promote cooperation between TUT and Brandenburg University of Technology, Cottbus, Germany.

Advance registration deadline: May 1, 2011

*Late registration deadline: **May 25, 2011***

Venue: Room X-413 (Building X - Tallinn School of Economics and Business Administration), Tallinn University of Technology, Akadeemia tee 3, Tallinn, ESTONIA

Participation fee: sponsored by CREDES

CREDES has selected a set of young researchers who will receive travel grants and/or give voluntary short presentations. Application deadline was May 1, 2011.

The event is co-financed by the German Academic Exchange Service (DAAD) via ZUSYS project.

