



Centre of Research Excellence in
Dependable Embedded Systems

CREDES Summer School

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.

Advance registration deadline: May 1, 2011

Venue: Tallinn University of Technology, Tallinn, ESTONIA

Participation fee: sponsored by CREDES

CREDES travel grants: CREDES offers 10 travel grants covering travel costs up to 400 EUR and free accommodation. Application deadline: May 1, 2011.

Student presentations: 6 slots for voluntary short presentations by students.

(Notification of acceptance for travel grants applications and student presentations is May 3, 2011.)

