

REGISTRATION: Monday 4 Oct. 9.00-14.00 ▶ Tallinn University of Technology, Building 7
 Tuesday 5 Oct. 8.00-14.00 ▶ SWISSOTEL Conference Centre

14:00 - 17:50 OPENING PLENARY SESSION

Chair: Prof. Toomas Rang

14:00 Opening address, Greetings

14.10 Invited talk 1 **Baltic Electronics Conference (BEC) series: long and winding road**
 Toomas Rang, Tallinn University of Technology, Estonia

14.50 Invited talk 2 **Thomas Johann Seebeck and his contribution to the modern science and technology**
 Enn Velmre, Tallinn University of Technology, Estonia

15.30 - 15.50 COFFEE

15.50 Invited talk 3 **Thomas Johann Seebeck - Two Centuries Later, An Appreciation**
 Daniel Foty, Gilgamesh Associates, LLC, USA

16.30 Invited talk 4 **Convergence of Design and Fabrication Technologies, a Key Enabler for Smart Systems Integration**
 Ahmed Jerraya, CEA-LETI, MINATEC, Grenoble, France

17.10 Invited talk 5 **SecFutur: Security Engineering Process for Networked Embedded Devices**
 Simin Nadjm-Tehrani, Linköping University, Sweden

18:00 Conference Welcome Reception at TUT

TUESDAY 5 Oct.

SWISSOTEL Conference Centre

	room A ▶ TORNIMÄE 2	room B ▶ TARTU	room C ▶ TORNIMÄE 1	room D ▶ BALLISAAL 1
10:00-11:00	2. Integrated Electronics and Chip Design SESSION 2-1: Signal Sources Chair: Dr. Raul Land	6. Systems, Instrumentation, Communication, and RF Solutions SESSION 6-1: Communications Chair: Prof. Mart Min	7. Biomedical Electronics SESSION 7-1: Bioimpedance Chair: Dr. Rauno Gordon	3. Test, Diagnostics, and Fault Tolerance SESSION 3-1: Analogue and defect-oriented test Chair: Dr. Jaan Raik

11.00 - 11.30 COFFEE

11:30-12:30	2. Integrated Electronics and Chip Design SESSION 2-2: Amplifiers and Filters Chair: Dr. Eiko Kängsep	6. Systems, Instrumentation, Communication, and RF Solutions SESSION 6-2: Measurements Chair: Dr. Paul Annus	7. Biomedical Electronics SESSION 7-2: Monitoring Chair: Dr. Toomas Parve	8. Power Electronics SESSION 8-1 Chair: Dr. Dmitri Vinnikov
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12:30-13:30	2. Integrated Electronics and Chip Design SESSION 2-3: Analog Circuits Chair: Dr. Rein Sabolotny	6. Systems, Instrumentation, Communication, and RF Solutions SESSION 6-3: Systems Chair: Prof. Uwe Pliquet	7. Biomedical Electronics SESSION 7-3: Photoplethysmography Chair: Prof. Kalju Meigas	8. Power Electronics SESSION 8-2 Chair: Dr. Daniel Wojciechowski
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13.30 - 14.30 LUNCH

14:30-15:30	2. Integrated Electronics and Chip Design SESSION 2-4: Digital Circuits Chair: Prof. Peeter Ellervee	5. Dependable Computing and Formal Verification SESSION 5-1 Chair: Prof. Jüri Vain	9. Signal Processing SESSION 9-1: Condition monitoring and recognition Chair: Dr. Rain Ferenets	8. Power Electronics SESSION 8-3 Chair: Dr. Marek Adamowicz
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15.30 - 16.00 COFFEE

16:00-17:00		5. Dependable Computing and Formal Verification SESSION 5-2 Chair: Dr. Marko Käärmees	9. Signal Processing SESSION 9-2: Numerical methods Chair: Dr. Toomas Ruuben	8. Power Electronics SESSION 8-4 Chair: Dr. Ilya Galkin
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19:00 Conference Dinner

WEDNESDAY 6 Oct.

SWISSOTEL Conference Centre

	room A ▶ TORNIMÄE 2	room B ▶ TARTU
10:00 - 11:00	1. Electronic Materials, Technologies, Devices, and Simulation SESSION 1-1: Technologies Chair: Prof. Toomas Rang	4. Embedded Systems SESSION 4-1 Chair: Prof. Thomas Hollstein
11:00 - 12:00	1. Electronic Materials, Technologies, Devices, and Simulation SESSION 1-2: Devices Chair: Prof. Enn Velmre	4. Embedded Systems SESSION 4-2 Chair: Dr. Gert Jervan

12.00 - 12.30 COFFEE

13:00 - 16:40 CLOSING PLENARY SESSION

Chair: Prof. Toomas Rang

13.00 Invited talk 6 **Synthesis of Circuits and Systems from Hierarchical and Parallel Specification**
 V. Sklyarov, University of Aveiro, Portugal

13.40 Invited talk 7 **Future Computer System Design Challenges**
 Rainer Dorsch, IBM Systems & Technology Group, Boeblingen, Germany

14.20 Invited talk 8 **SOC Design for Wireless Communications**
 Zoran Stamenković, IHP – Innovations for High Performance microelectronics, Germany

15.00 - 15.20 COFFEE

15.20 Invited talk 9 **Cooperative Converters in Power Electronic Systems**
 E. Romero-Cadaval, M. I. Milanés-Montero, PE&ES. University of Extremadura, Spain

16.00 Invited talk 10 **Application of the principle of reciprocity to impedance tomography and other problems in bioelectromagnetism**
 J. Malmivuo, Tampere University of Technology, Finland

17:00 Closing of the Conference