

# Test Spring School 2020

**Tallinn, Estonia**  
**May 22-25 2020**

Held in conjunction with the  
**25<sup>th</sup> IEEE European Test Symposium**  
[www.ieee-ets.org](http://www.ieee-ets.org)



## *Robustness in New Computing Paradigms and Technologies*

Co-organized with H2020 RESCUE European Training Network and the Graduate School “Intelligent Methods for Test and Reliability”

**Friday, May 22**

18:00 Welcome and introduction

**Saturday, May 23**

08:00 Neuromorphic Computing

*K. Roy, Purdue University, USA*

13:30 Approximate Computing (part I)

*A. Bosio, Ecole Central de Lyon, France*

**Sunday, May 24**

08:00 Approximate Computing (part II)

*A. Bosio, Ecole Central de Lyon, France*

09:15 Design and Automation for Silicon Photonics Integration

*P. Kalla, University of Utah, Salt Lake City, USA*

14:45 In-Memory Computing (part I)

*M. Tahoori, KIT, Germany*

**Monday, May 25**

08:00 In-Memory Computing (part II)

*M. Tahoori, KIT, Germany*

14:00 ETS Monday Tutorials

**Track A: Test and Reliability Aspects in Neuromorphic Computing**

*Krishnendu Chakrabarty, Duke University, USA*

**Track B: Quantum Computing – Basic Concepts and Challenges in Implementation and Reliability**

*Koen Bertels, TU Delft, The Netherlands*

The European Test Symposium (ETS'20) offers a 3-day Test Spring School (TSS@ETS 2020, May 22-25) for Ph.D. and M.Sc. students who will be introduced into the most up-to-date concepts in test, reliability, security, and technology. The overall theme of this year is *Robustness in New Computing Paradigms and Technologies*. Renowned experts will give lectures and cover the main challenges and solutions in approximate, neuromorphic, and in-memory computing. The tutorials also introduce into the state of the art in quantum computing and in silicon photonics.

The spring school is organized in conjunction with ETS'20, and the last two lectures are open for the general ETS audience without additional fee. The spring school is also organized in cooperation with the H2020 RESCUE European Training Network and the Stuttgart Graduate School “Intelligent Methods for Test and Reliability”.

TSS@ETS is offered to registered students at low cost rate. There will also be a bundle student rate registration for both TSS and ETS, at exceptionally low rate. The spring school is also open for interested professionals at higher rates, however priority is given to students on a first-come, first-serve basis, as the number of attendees is strictly limited.

### Test Spring School Venue

Pirita Marina Hotel & Spa  
Tallinn, Estonia  
<https://piritamarihotel.ee/en>

### Organizing Committee

Lembit Jürimägi  
Uljana Reinsalu  
Jan Dennis Reimer

### Scientific Committee Chairs

Sybille Hellebrand  
Haralampos Stratigopoulos

### Scientific Committee Members

Artur Jutman, Jaan Raik  
Görschwin Fey, Maksim Jenihhin  
Georges Gielen, Michele Stucchi  
Ioana Vatajelu

Check further details at: <https://tss.date.upb.de/tss2020/>