

# BELAS

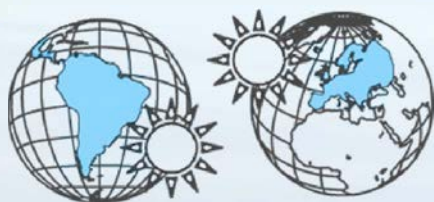
## 8<sup>th</sup> Biannual European - Latin American Summer School on Design, Test and Reliability

June 20-22, 2018, Tallinn, Estonia

<http://tallinn2018.belas-event.org/>

Tallinn 2013 • Fortaleza 2014 • Frankfurt-Oder 2014 • Guadalajara 2015 • Turin 2016 • Rotterdam 2017 • Sao Paulo 2018 • Tallinn 2018

**Call for Participation.** We do not want to miss a single summer! BELAS is organized twice a year during the summers in the Northern and Southern Hemispheres. Distinguished speakers from Latin America and Europe will share their knowledge with PhD students, engineers and researchers. Participants are invited to present their research at the PhD Forum. This time we will celebrate the 5<sup>th</sup> anniversary of BELAS!



### Committees

#### General Chair:

Maksim Jenihhin – Tallinn UT, Estonia

#### Program Chair:

Jaan Raik – Tallinn UT, Estonia

#### Program Committee:

Maksim Jenihhin – Tallinn UT, EE (EU Co-Chair)

Fabian Vargas – PUCRS, Brazil (LA Co-Chair)

Anton Klotz – Cadence Design Systems, Germany

Leticia Maria Bolzani Poehls – PUCRS, Brazil

Matteo Sonza Reorda – POLITO, Italy

Victor Champac – INAOE, Mexico

Said Hamdioui – TU Delft, Netherlands

Heinrich Theodor Vierhaus – BTU, Germany

Eduardo Augusto Bezerra – UFSC, Brazil

Georgios Selimis – Intrinsic ID, Netherlands

Milos Krstic – IHP, Germany

José Lipovetzky – Instituto Balseiro, Argentina

Dan Alexandrescu – iROC, France

### PhD Forum

The forum poster session is an opportunity for the attending PhD students to discuss their research with the speakers and other participants. Abstract submission deadline is June 4, 2018.

### Technical Program

**Raoul Velazco**, *TIMA Laboratory, France*, Effects of radiation in integrated circuits: origins, mitigation techniques, tests and real-life experiments

**Maria K. Michael**, *Uni. Cyprus, Cyprus*, Resilient Multicore Systems using Software-Based Self-Test

**Victor Champac**, *INAOE, Puebla, Mexico*, Design & Test Challenges in FinFET Based Circuits

**Anton Klotz**, *Cadence Design Systems, Germany*, 10 years Cadence Academic Network, an example of successful industry-academia partnership

**Artur Jutman**, *Testonica Lab, Estonia*, On-Chip Health Monitoring and Fault Management for Self-Health-Aware SoCs

**Fabian Vargas**, *PUCRS, Brazil*, Combined Effects of Ionizing Radiation and Electromagnetic Interference

**Maximilien Glorieux**, *iROC, France*, Transient Faults Analysis Management for High-Reliability Applications

**Paolo Rech**, *UFRGS, Brazil*, Guidelines for the Radiation Test of Electronic Devices and Systems

**Zainalabedin Navabi**, *Uni. Tehran, Iran / WPI, USA*, System Level Design Space Exploration for Reliability and Efficiency in Design of Abstract Communications

**Maarja Kruusmaa**, *Tallinn UT, Estonia*, (Soft-skills training)  
Ethical Writing: A Crash Course for PhDs

### Registration (by May 19, 2018)

Projects-supported, no registration fees. The number of seats is strictly limited and early registration is advised to ensure your participation (first-come, first-served). The event venue and recommended accommodation is Tallink Spa & Conference Hotel, Tallinn.

See you in Tallinn!



**RESCUE**  
European Training Network

H2020 MSCA ITN action RESCUE



**TUTORIAL**

H2020 TWINN action TUTORIAL



TALLINN UNIVERSITY OF  
TECHNOLOGY

Background images by Anu Wintschalek.

**DAY 1 (Wednesday, June 20)**

room: Galaxy 1+2

**DAY 2 (Thursday, June 21)**

room: Galaxy 1+2

**DAY 3 (Friday, June 22)**

room: Galaxy 1+2

room: Romantika

08:30	Registration and Welcome				08:30
09:00	Tutorial 1: <b>Raoul Velazco</b> <i>Effects of radiation in integrated circuits: origins, mitigation techniques, tests and real-life experiments</i>	Tutorial 5: <b>Maria K. Michael</b> <i>Resilient Multicore Systems using Software-Based Self-Test</i>	Tutorial 7: <b>Maximilien Glorieux</b> <i>Transient Faults Analysis Management for High-Reliability Applications</i>		09:00
09:30					09:30
10:00					10:00
10:30	Coffee	Coffee / PhD Forum: Session B	Coffee / PhD Forum: Session C		10:30
11:00	Tutorial 2: <b>Paolo Rech</b> <i>Guidelines for the Radiation Test of Electronic Devices and Systems</i>	Tutorial 6: <b>Artur Jutman</b> <i>On-Chip Health Monitoring and Fault Management for Self-Health-Aware SoCs</i>	Tutorial 8: <b>Anton Klotz</b> <i>10 years Cadence Academic Network: a successful industry-academia partnership</i>		11:00
11:30					11:30
12:00					12:00
12:30	Lunch		Lunch		12:30
13:00		Lunch			13:00
13:30	Tutorial 3: <b>Fabian Vargas</b> <i>Combined Effects of Ionizing Radiation and Electromagnetic Interference</i>		Tutorial 9: <b>Victor Champac</b> <i>Design &amp; Test Challenges in FinFET Based Circuits</i>	RESCUE project Management Committee Meeting	13:30
14:00					14:00
14:30					14:30
15:00	Coffee / PhD Forum: Session A	Social Event and Networking Activities (out of Tallinn)	Coffee		15:00
15:30			Soft-Skills Tutorial: <b>Maarja Kruusmaa</b> <i>Ethical Writing: A Crash Course for PhDs</i>		15:30
16:00	Tutorial 4: <b>Zainalabedin Navabi</b> <i>System Level Design Space Exploration for Reliability and Efficiency in Design of Abstract Communications</i>				Closing
16:30					16:30
17:00				17:00	
17:30	Free time				17:30
18:00	Welcome Reception (around the venue)		Farewell, Networking, Departure...		18:00
					18:30
					19:00