



# RTU CON 2016

## 57<sup>th</sup> International Scientific Conference of Riga Technical University on Power and Electrical Engineering

October 13-14, 2016, Riga, Latvia



### Call for papers

#### Organizing Committee

##### General Chairman

Ilya Galkin (Riga Technical University - RTU, Latvia)

##### Honorary Board

- Antans Sauhats (RTU, Latvia)
- Leonids Ribickis (RTU, Latvia)

##### Technical Track Chairs

- Andrejs Podgornovs (RTU, Latvia)  
*Electrical Engineering; Education*
- Ilya Galkin (RTU, Latvia)  
*Power Electronics; Control Electronics and ICT*
- Svetlana Berjozkina (RTU, Latvia)  
*Power Engineering; Smart Grids*

##### Program Committee Members

- Aivars Pumpurs (RTU, Latvia)
- Aleksandrs Dolgicers (RTU, Latvia)
- Alexander Gasparyan  
(Latvian Maritime Academy, Latvia)
- Anatolijs Mahņitko (RTU, Latvia)
- Antans Sauhats (RTU, Latvia)
- Antons Kutjuns (Latvenergo, Latvia)
- Dmitri Vinnikov  
(Tallinn University of Technology - TUT, Estonia)
- Edmunds Kamolins (RTU, Latvia)
- Enrique Romero-Cadaval  
(University of Extremadura, Spain)
- Irina Oļeņikova (RTU, Latvia)
- Ivars Rankis (RTU, Latvia)
- Jānis Dirba (RTU, Latvia)
- Jānis Gerhards (RTU, Latvia)
- João Martins  
(Universidade Nova de Lisboa, Portugal)
- Josifs Survilo (RTU, Latvia)
- Karlis Ketners (RTU, Latvia)
- Mati Valdma (TUT, Estonia)
- Reinis Neimanis (General Electric, Sweden)
- Ryszard Strzelecki  
(Gdynia Maritime Academy, Poland)
- Sandra Vitolina (RTU, Latvia)
- Sergey Kharitonov  
(Novosibirsk State Technical University, Russian Federation)
- Vanja Ambrožič  
(University of Ljubljana, Slovenia)
- Viktorija Neimane (Vattenfall, Sweden)
- Vilnis Kreslins (LEEA, Latvia)
- Vladislavs Pugacevs  
(Institute of Physical Energetics, Latvia)
- Yury Paerand  
(Donbas State Technical University, Ukraine)
- et al.

#### Important dates

**20/05/2016** Submission of drafts for review  
**13/06/2016** Notification of acceptance  
**8/07/2016** Submission of final papers  
**8/07/2016** Final date for fee transfer  
**29/08/2016** Conference program available

#### Contacts

**Riga Technical University**  
 Faculty of Power and Electrical Engineering  
 Azenes street 12/1, Riga, LV-1048, Latvia  
 Phone: +371 67089918  
 FAX: +371 67089941  
 web: [www.conference.rtu.lv](http://www.conference.rtu.lv)  
 e-mail: [power2016@conference.rtu.lv](mailto:power2016@conference.rtu.lv)  
 subject of e-mail: **RTU CON 2016**

#### Organized by

##### Riga Technical University

57<sup>th</sup> International Scientific Conference of Riga Technical University on Power and Electrical Engineering is organized in order to give an opportunity to scientists, engineers and manufacturers as well as to doctoral students from all over the world to meet and discuss recent development and their achievements in the area of power and electrical engineering.

#### Technical Tracks

The list of the topics of the conference includes but not limited to the following:

##### TT1: Electrical Engineering

- Theory and Analysis of Electrical Machines, Drives and other Electrical Equipment
- Design and Maintenance of Electrical Machines, Drives and other Electrical Equipment
- Other electrical equipment
- Electromagnetic Compatibility and Reliability of Electrical Equipment

##### TT2: Power Electronics

- Implementation, Protection and Thermal Design of Power Semiconductor Switches
- New Topologies and Topological Improvements of Power Electronic Converters
- Design of Power Electronic Converters
- Applications of Power Electronic Converters

##### TT3: Power Engineering

- Power System Control, Automation, Stability and Protection
- Power Quality and Reliability
- Power Plants, Renewable and Distributed Energy Systems
- Power System Planning, Management and Economic Evaluation
- Power System Risk Assessment and Management
- Electricity Market

##### TT4: Smart Grids

- Energy Management in Buildings
- Smart Grid for Energy Economy and Financial Management
- Intelligent Energy Measurement and Monitoring
- Smart Grid and Plug-In Vehicles
- Power Converters and Control Equipment for Smart Grids

##### TT5: Control Electronics and ICT

- Intellectual Transport Systems
- Control Electronics and ICT in Mechatronics and Robotics
- Control Electronics and ICT for Human-Machine Interaction
- Electronics and ICT in Biology and Medicine
- Control Electronics and ICT in Power Electronics

##### TT6: Education

- Methodology of Power and Electrical Engineering Education
- Tools of Power and Electrical Engineering Education
- Distance Education in Power and Electrical Engineering

#### Conference Venue



The conference will be held in the building of the Faculty of Power and Electrical Engineering of RTU (Latvia, Riga, Azenes street 12/1). Riga, the capital of Latvia with a population of about seven hundred thousand inhabitants, is a modern city, which has a lot to offer both in terms of history, culture and social life. The climate of Riga is humid continental. Typical temperature in October is from 5 to 10°C, precipitation level – 60mm, mean monthly sunshine hours – 100.

#### General information

- The **upload** service for initial submissions and final papers is <https://www.easychair.org/conferences/?conf=rtucon2016>
- The working language of the conference is **English**, which will be used for all printed materials, presentations and discussions
- Accepted papers will be presented in **oral sessions** only
- Initial submissions must be **full papers 4 pages long**
- **Blind peer-to-peer reviewing** will be provided for all regular papers
- **Special awards** will be given to the most highly evaluated paper, the most accurate reviewer and the most active participant
- **Best papers** submitted and presented during the conference **will be published** in the Scientific Journal of Riga Technical University
- **All papers accepted and presented** at the conference will be submitted to **IEEE Xplore** database and will be cross-referred in **SCOPUS**

#### Participation Fee

The participation fee is **150 EUR** (including VAT) per paper per participant (for all categories). It covers the cost of conference proceedings, morning and afternoon coffee breaks, lunch, as well as Gala Dinner.