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**of Riga Technical University  
on Power and Electrical Engineering**  
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## RTUCON2023 Call for Papers

**2023 IEEE 64th International Scientific Conference of Riga Technical University (RTU) on Power and Electrical Engineering** invites scientists, engineers and manufacturers as well as to doctoral students from all over the world to meet and discuss recent results in the area of power and electrical engineering.

### Topics and Committees

**General Chairman:** Ilya Galkin (RTU, Latvia).

**Honorary Board:** Leonids Ribickis, Antans Sauhats (RTU, Latvia).

**TT1 Electrical Engineering:** (1.1) Theory, Analysis and Design of Electrical Equipment; (1.2) Safety and Reliability of Electrical Equipment; (1.3) Electrical Materials; (1.4) Electromagnetic Compatibility of Electrical Equipment; (1.5) Transformers, Relays and Other Electrical Units; (1.6) Environmental (1.6) Environmental Assessment of Electrical Equipment.

**Chairperson:** Ilya Galkin (RTU, Latvia).

**Scientific Committee:** Oleksandr Bondarenko (Igor Sikorsky Kyiv Polytechnic Institute, Ukraine); Pavlo Safronov (Odessa National Polytechnic University, Ukraine); Pylyp Hovorov (O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine); Mariusz Stepień (Silesian University of Technology, Poland); Peteris Apse-Apsitis, Rodions Saltanovs, Ansis Avotins, Kristaps Vitols, Olegs Tetervenoks (RTU, Latvia) et al.

**TT2 Electrical Machines, Drives and Vehicles:** (2.1) Theory and Analysis of EM&ED, (2.2) Design and Maintenance of EM&ED, (2.4) Mechatronics and Robotic Systems; (2.4) Reliability and Lifetime Analysis of Electrical Machines and Apparatus; (2.5) Electric Vehicles and Transportation Electrification.

**Chairperson:** Payam Shams Ghahfarokhi (TalTech, Estonia).

**Scientific Committee:** Andrei Podgornov, Maris Gailis (RTU, Latvia); Toomas Vaimann, Ants Kallaste, Hans Tiismus, Anton Rassõlkin, Bilal Asad, Hadi Ashraf Raja (TalTech, Estonia); Mariusz Stepień (Silesian University of Technology, Poland); Vanja Ambrozic, Mitja Nemeč (University of Ljubljana, Slovenia); Levon Gevorgov (Catalonia Institute for Energy Research, Spain); Antti Lehikoinen, Anouar Belachen (Aalto University, Finland) et al.

**TT3 Power Electronics:** (3.1) New Topologies and Topological Improvements of Power Electronic Converters; (3.2) Applications of Power Electronic Converters; (3.3) Design Issues of Power Electronic Converters; (3.4) Implementation, Protection and Thermal Design of Power Semiconductor Switches.

**Chairperson:** Dmitri Vinnikov (TalTech, Estonia).

**Scientific Committee:** Oleksandr Bondarenko (Igor Sikorsky Kyiv Polytechnic Institute, Ukraine); Serhii Stepenko (Chernihiv Polytechnic National University, Ukraine); Tanel Jalakas, Indrek Roaso, Andrii Chub, Oleksandr Husev, Andrei Blinov, Edivan Carvalho (TalTech, Estonia); Janis Zakis, Kristaps Vitols, Olegs Tetervenoks, Ingars Steiks (RTU, Latvia); Satish Naik, Little Pradhanet, Aditya Pogulaguntla, Venkata Raghavendra I (Indian Institute of Technology Dharwad, India); Enrique Romero-Cadaval, Carlos Roncero-Clemente (University of Extremadura, Spain); Joao Martins (Universidade NOVA de Lisboa, Portugal); Luigi Piegari (Politecnico di Milano, Italy); Omar Abdel-Rahim (Texas A&M University, Qatar) et al.

**TT4 Power and Energy Systems:** (4.1) Power System Control, Automation, Stability and Protection; (4.2) Power Quality and Reliability; (4.3) Power Plants, Renewable and Distributed Energy Systems; (4.4) Power System Planning, Management and Economic Evaluation; (4.5) Power System Risk Assessment and Management; (4.6) Electricity Market.

**Chairperson:** Tatjana Lomane (RTU, Latvia).

**Scientific Committee:** Sergej Denisiuk, Julia Yamnenko (Igor Sikorsky Kyiv Polytechnic Institute, Ukraine); Lauri Kütt, Argo Rosin, Jelena Shuvalova (TalTech, Estonia); Karlis Baltputnis, Zane Broka, Aleksandrs Dolgicers, Sergey Kovalenko, Jevgenijs Kozadajevs, Roman Petrichenko, Lubov Petrichenko, Sergejs Rubcovs, Josifs Survilo, Andrejs Utans, Ivars Zalitis, Inga Zicmane, Olegs Borscevskis (RTU, Latvia); Renata Varfolomejeva (AS Latvenergo, Latvia); Anna Mutule (Institute of Physical Energetics, Latvia); Aleksandrs Gavrilovs (JSC "Sadales tikls", Latvia); Elena Korkina (Energy Systems Institute SB RAS, Russia); Piotr Leżynski (University of Zielona Gora, Poland); Jacek Rabkowski (Warsaw University of Technology, Poland); Robertas Kersys (Kaunas University of Technology, Lithuania); Svetlana Beryozkina (American University of the Middle East, Kuwait); Angelo L'Abbate (RSE SpA, Italy); Muhammad M.A.S. Mahmoud (Independent Researcher, Egypt); Michael Negnevitsky (University of Tasmania, Australia) et al.

**TT5 Smart Grids and Microgrids:** (5.1) Energy Management in Buildings; (5.2) Smart Grid for Energy Economy and Financial Management; (5.3) Intelligent Energy Measurement and Monitoring; (5.4) Smart Grid and Plug-In Vehicles; (5.5) Power Converters and Control for Smart Grids.

**Chairperson:** Artjoms Obushevs (Zurich University of Applied Sciences, Switzerland).

**Scientific Committee:** Jako Kilter (Tallinn University of Technology, Estonia); Angelo L'Abbate (RSE SpA, Italy); Antons Kutjuns, Aleksandrs Lvovs, Laila Zemite (RTU, Latvia); Viktorija Bobinaite, Arturas Klementavicius (Lithuanian Energy Institute, Lithuania); Miguel Gonzalez (Zurich University of Applied Sciences, Switzerland) et al.

**TT6 Information Technologies in Electrical and Power Engineering:** (6.1) Information Technologies in Electrical Engineering; (6.2) Information Technologies in Power Engineering; (6.3) Intellectual Transport Systems; (6.4) Electronics and ICT for Biology and Medicine; (6.5) Electronics and ICT for Sensor Networks; (6.6) Tools of Human-to-Machine and Machine-to-Machine Interaction.

**Chairperson:** Mikhail Gorobetz (RTU, Latvia).

**Scientific Committee:** Ojars Kruminis (D8 Corporation, Latvia); Sergii Denysiuk (Igor Sikorsky Kyiv Polytechnic Institute, Ukraine); Robertas Kersys (Kaunas University of Technology, Lithuania); Aleksandrs Gasparjans (Latvian Maritime Academy, Latvia); Ivars Alps, Jelena Caiko, Antons Patlins, Andrejs Potapovs (RTU, Latvia) et al.

**TT7 Electrical and Power Engineering Education:** (7.1) Methodology of Electrical and Power Engineering Education; (7.2) Tools of Electrical and Power Engineering Education; (7.3) Distance Education in Electrical and Power Engineering.

**Chairperson:** Nadezhda Kunicina (RTU, Latvia).

**Scientific Committee:** Dejan Blagojevic (College of applied technical sciences Nis, Serbia); Kinga Korniejenko (Cracow University of Technology, Poland); Shchasianna Arhun (Kharkiv National Automobile and Highway University, Ukraine); Yelena Chaiko, Igors Utesevs, Anastasija Ziravecka (RTU, Latvia); Hemlal Bhattacharai (Royal University of Bhutan, Bhutan); Zoja Raud, Valery Vodovozov (Tallinn University of Technology, Estonia); Christos Manasis (Technological Educational Institute of Sterea Ellada, Greece); Ines Bula (University Education for Business and Technology, Kosovo); Ratko Ivkovic (University of Pristina, Serbia); Ivana Bilic (University of Split, Croatia) et al.

### About

#### Important Info

All accepted and presented papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements and later to SCOPUS/TRWoS. Best accepted papers will be recommended for publishing in IEEE IAS journals.

Best papers/reviewers/participants will be awarded.

#### Participation Fee (tentative)

Paper 1 to 6 pages – 200...300EUR, 30EUR per each page >6, catering 150EUR, attending – free.

#### Contacts

**Postal:** Organizational Committee of RTUCON2023, Riga Technical University, Faculty of Electrical and Environmental Engineering, Azenes street 12k1, Riga, LV-1048, Latvia.

**web:** <http://www.conference.rtu.lv>

**e-mail:** [power2023@conference.rtu.lv](mailto:power2023@conference.rtu.lv)

**subject of e-mail:** **RTUCON2023**

#### Conference Venue and Weather Conditions

The venue is the new building of RTU's Faculty of Electrical and Environmental Engineering (Latvia, Riga, Azenes street 12k1). Riga, the capital of Latvia has a lot to offer both in terms of history, culture and social life. The climate of Riga is humid continental. Temperature in October is 7-10°C, precipitation – 75mm, Mean monthly sunshine hours 95.



#### Important Dates:

2023-07-14 08-04 Deadline for drafts  
2023-08-28 09-11 Notification of decision  
2023-09-04 09-11 Availability of schedule  
2023-09-08 09-20 Deadline for final papers  
2023-09-08 09-20 Deadline for fee transfer  
2023-09-15 09-22 Availability of program  
2023-10-09...11 Conference event

### For Authors

#### Main Rules:

**Working language** – English for entire event and communications,  
**Presentation kind** – lecture only,  
**Presence kind** – in person only,  
**Pages (drafts)** – 4 pages,  
**Pages (final papers)** – 4...10 pages,  
**Paper format** – IEEE conference format (mostly 2 columns, Time New Roman, 10pt etc.).

#### Links:

**Submissions** – <https://www.easychair.org/conferences/?conf=rtucon2023>  
**Template** – [http://www.conference.rtu.lv/rtucon/docs/2014\\_04\\_msw\\_a4\\_format.doc](http://www.conference.rtu.lv/rtucon/docs/2014_04_msw_a4_format.doc)  
**IEEE Taxonomy (keywords)** – <https://www.ieee.org/content/dam/ieee-org/ieee/web/org/pubs/ieee-taxonomy.pdf>