



## Newsletter Contents

- EPE'18 ECCE Europe, Riga, Latvia, 17-21 September 2018:  
**LAST CALL for REGISTRATION**
- EPE'19 ECCE Europe, Genova, Italy, 2-6 September 2019:  
**CALL FOR PAPERS**

## EPE'18 ECCE Europe, Riga, Latvia, 17-21 September 2018



### LAST CALL for REGISTRATION:

Save yourself some time at the registration desk and REGISTER TODAY !

All current information can be found here:

<http://www.epe2018.com>

The registration is OPEN, register NOW:

<http://www.epe2018.com/registration/>

Registered participants have access to the papers: <https://wd.cborg.info/EPE2018/program.html>

Click "Full paper", log in with your login and password, and have access to the full papers that will be presented at EPE'18 ECCE Europe in Riga.

### Our KEYNOTE SPEAKERS:

<b>Tuesday:</b> 18 September	<b>Design for reliability in Power Electronic Systems</b> Frede Blaabjerg, Aalborg University, Denmark (09:30)	
<b>Wednesday:</b> 19 September	<b>Emergency of the DC Microgrids in electro-intensive applications</b> Daniel Radu Schneider Electric, France (09:00)	<b>Fast Charging in the Urban Environment – Infrastructure Challenges and Opportunities</b> Rik W. De Doncker RWTH Aachen, Germany (09:30)
<b>Thursday:</b> 20 September	<b>Power Electronics for future power grids: drivers and challenges</b> Alireza Nami ABB Corporate Research, Sweden (09:00)	<b>Power Grids Control: drivers and trends</b> Bruno Luscan Supergrid Institute, France (09:30)



# EPE ECCE Conference Newsletter



## Our PROGRAMME AT A GLANCE:

Start time of slot	17/09/2018	Start time of slot	Tuesday 18 September 2018	Start time of slot	Wednesday 19 September 2018	Start time of slot	Thursday 20 September 2018	21/09/2018	
8h30	Tutorials see programme	8h30	Registration: 07:30-17:30h	8h30	Registration: 07:30-17:30h	8h30	Registration: 08:00-14:30h	Technical visits see programme	
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### I POWER ELECTRONICS COMPONENTS AND CONVERTERS

Topic 1: Devices, components, packaging and system integration

Topic 2: Power converters topologies and design

Topic 3: Measurement and control

### II POWER ELECTRONICS APPLICATIONS

Topic 4: Electrical machines and drive systems

Topic 5: Renewable energy power systems

Topic 6: Grids, smart grids, AC & DC

Topic 7: Power supplies

Topic 8: Electric vehicle propulsion systems and their energy storage

Topic 9: Industry specific energy conversion and conditioning technologies



## **Our TUTORIALS:**

T1 - Designing with SiC & GaN Devices With Emphasis on EMC & Safety Considerations; Dr. Supratim Basu, Prof. Tore Undeland & Prof. Jorma Kyyrä

T2 - Fast Charging Ready? Infrastructure, Topologies and Key Enabling Components; Prof. R. W. De Doncker, Prof. D. U. Sauer, RWTH-ISEA and E.ON ERC

T3 - Control for Grid-Friendly Power Converter Systems; Frede Blaabjerg, Yonheng Yang, Aalborg University, Denmark; Yi Tang, Nanyang Technological University, Singapore

T4 - Stability Analysis and Damping of Grid-Converter Interactions; Lennart Harnefors, ABB Corporate Research, Västerås, Sweden; Xiongfei Wang, Aalborg University, Denmark; Mats Larsson, ABB Corporate Research, Baden, Switzerland

T6 - Modular Multilevel Converters – MMC: Principles, Design, Control, Modelling and HVDC Applications; Kamran Sharifabadi- Technology Adviser: Power Grid & Regulatory Affairs – Statoil, Norway, Staffan Norrga, Hans Peter Nee, KTH, Lennart Harnefors – Professor, ABB Corporate Research, Västerås and KTH, Sweden, Remus Teodorescu - Professor, Department of Energy Technology, Aalborg University, Denmark

T7 - Capacitors in Power Electronics Applications – Passive and Active Capacitive DC Links; Huai Wang, Haoran Wang, Center of Reliable Power Electronics (CORPE), Aalborg University, Denmark

T8 - Thermal and Reliability Modelling of Power Electronics Systems; Amir Sajjad, Francesco Iannuzzo, Aalborg University, Denmark

T9 - Permanent Magnet Machine Design and Applications; Prof. Bulent Sarlioglu, PhD, University of Wisconsin-Madison

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## **Our SPONSORS:**

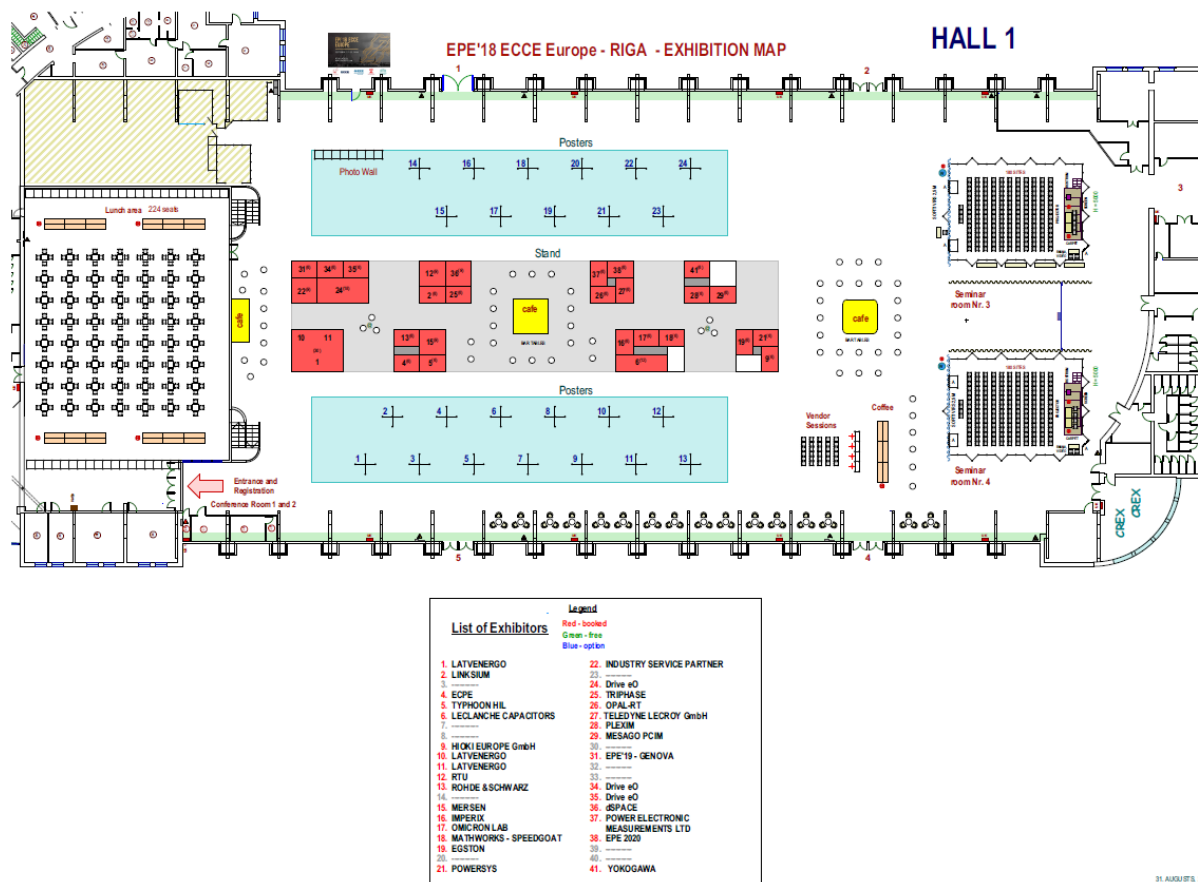
Platinum sponsor: [Latvenergo](#)



Contributor: [Industry Service Partner, SIA](#)



## Our EXHIBITION:



31 AUGUST 2018

**Do not miss the opportunity to meet fellow experts and discuss the future designs, future products, future markets!**

## Our EXHIBITORS:

Drive eO, dSPACE, ECPE, Egston, HIOKI EUROPE GmbH, imperix, Leclanché Capacitors, Linksiium, MathWorks – Speedgoat, Mersen, Mesago PCIM, OMICRON Lab, Opal-RT, Plexim, Power Electronics Measurements LTD, Powersys, Rohde & Schwarz, Riga Technical University, Teledyne LeCroy GmbH, TRIPHASE, Typhoon HIL, Yokogawa

**Our contact for the Exhibition:** [bsnevers@vub.ac.be](mailto:bsnevers@vub.ac.be)



## EPE'19 ECCE Europe, Genova, Italy, 2-6 September 2019

### CALL for Papers

**21<sup>st</sup> European Conference  
on Power Electronics  
and Applications**

# EPE'19

September 2-5, 2019  
Genova, Italy

## ECCE EUROPE

[www.EPE2019.com](http://www.EPE2019.com)



**November 15<sup>th</sup>, 2018**  
Abstract submission deadline

**March 1<sup>st</sup>, 2019**  
Notification of provisional acceptance

**June 3<sup>rd</sup>, 2019**  
Final submission deadline









**UNIVERSITÀ DEGLI STUDI  
DI GENOVA**



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## *Organization and Venue*

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The Power Electronics community will gather in **Genova**, Italy, from 2 to 6 September 2019, to exchange views on research progresses and technological developments in the various topics described hereunder. On Monday 2 September a number of tutorials will be organised and several technical visits are planned on Friday 6 September.

The 21<sup>st</sup> Conference on Power Electronics and Applications (and Exhibition), EPE'19 ECCE (Energy Conversion Congress and Expo) Europe is co-sponsored by the EPE Association and IEEE PELS. It will take place at the Magazzini del Cotone Conference Centre in downtown Genova.

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## *Aims of the Conference*

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EPE ECCE Europe is the place for specialists in power electronics, systems and components, to present papers and attend sessions on state-of-the-art technology in this challenging and evolutionary sector. The conference aims to be a meeting forum for researchers, developers and specialists from academia and industry. Papers are encouraged on all topics described hereunder for interdisciplinary discussions of new ideas, research, development, applications and the latest advances in the field of power electronics and adjustable speed drives.

A characteristic trend from previous EPE ECCE Europe Conferences has been an increasingly large industrial participation, as well as growing exhibition, which allows for enhanced exchanges between academia and industry.

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## *Topics*

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Electrical energy generation and supply to users is on transition to distributed generation from traditional to renewable energy sources and development of Smart grids on “macro” “micro” and “nano” levels. Very fast research and development of smart DC grids is highly challenging and power electronics is the driving force of those new technologies. Power electronics in mechatronic and adaptronic systems, industrial robotics and wide range health care and biorobots with artificial intelligence are topics for further research.

The explosive development of electric mobility, current and expected, will provide new challenges and opportunities; on one side, the progressive removal of fossil fuels, both in transport and heating/cooling, will increase the usage of electric energy; on the other side, a vast number of batteries, both on wheels and in fast charging stations, may contribute to resolve the intrinsic unpredictability of renewables. Ultrafast vehicle charging stations, in particular, are expected to be realized with significant storage capacity.

Also, increasing the efficiency of power supplies reduces electrical energy consumption and may be counted as another way to reach that goal. Power electronics is also becoming crucial in electric power system, as it includes various types of energy storage technologies.

In response to all these challenges, novel topologies, control structures and power components are being introduced to improve performance of power electronics systems. Especially, new wide bandgap materials (SiC & GaN) and the incoming power modules are a serious chance for a big step forward in a broad range of applications.

A wide spectrum of topics will be addressed during the largest European conference in power electronics – EPE'19 ECCE Europe. Researchers, application engineers and experts from academia and industry will meet to discuss and exchange ideas.



## **I POWER ELECTRONICS COMPONENTS AND CONVERTERS**

### **Topic 1: DEVICES, COMPONENTS, PACKAGING AND SYSTEM INTEGRATION**

- 1.a. Passive components
- 1.b. Active devices and components (Si)
- 1.c. Active devices and components (Wide bandgap and other new materials)
- 1.d. System integration, packaging & thermal management
- 1.e. Reliability

### **Topic 2: POWER CONVERTERS TOPOLOGIES AND DESIGN**

- 2.a. Hard & soft switching techniques
- 2.b. Advanced power converter topologies
- 2.c. EMC issues including HF phenomena

### **Topic 3: MEASUREMENT AND CONTROL**

- 3.a. Standard and advanced control techniques for power converters
- 3.b. Application of control methods to electrical systems
- 3.c. Control of multi-machines/multi-converters
- 3.d. Estimation and identification methods
- 3.e. Sensorless control
- 3.f. Management of distributed systems
- 3.g. Computational intelligence in control systems
- 3.h. Measurements techniques
- 3.i. Sensors

## **II POWER ELECTRONICS APPLICATIONS**

### **Topic 4: ELECTRICAL MACHINES AND DRIVE SYSTEMS**

- 4.a. Electrical Machines
- 4.b. Adjustable speed drives
- 4.c. High performance drives
- 4.d. Motion control, robotics, special drives

### **Topic 5: RENEWABLE ENERGY POWER SYSTEMS**

- 5.a. Wind energy systems
- 5.b. Solar energy systems
- 5.c. Other renewable energy systems
- 5.d. Energy harvesting
- 5.e. Energy storage systems for renewable energy

### **Topic 6: GRIDS, SMART GRIDS, AC & DC**

- 6.a. Power electronics in transmission and distribution systems
- 6.b. HVDC & FACTS
- 6.c. Micro-grids
- 6.d. Smart grids
- 6.e. Power quality issues and power factor correction techniques
- 6.f. DC grids including fault coordination and protection



## **Topic 7: POWER SUPPLIES**

- 7.a. Low voltage DC power supplies
- 7.b. High voltage DC power supplies
- 7.c. Distributed power supplies
- 7.d. Uninterruptible power supplies (UPS)
- 7.e. Electronic ballasts and solid state lighting
- 7.f. Contactless power supply
- 7.g. Wireless power transfer

## **Topic 8: ELECTRIC VEHICLE PROPULSION SYSTEMS AND THEIR ENERGY STORAGE**

- 8.a. Electric propulsion systems for electric vehicles
- 8.b. Power converters for electric vehicles
- 8.c. Batteries, active and passive Management Systems (BMS)
- 8.d. EV's battery chargers: contact and contactless
- 8.e. Standards and regulations

## **Topic 9: INDUSTRY SPECIFIC ENERGY CONVERSION AND CONDITIONING TECHNOLOGIES (ECCT)**

- 9.a. ECCT in the industry (cement, steel, paper, textile, mining, etc...)
- 9.b. ECCT in aerospace and space applications
- 9.c. ECCT in rail vehicles
- 9.d. ECCT in Marine applications (offshore, subsea and deep ocean, and ships)
- 9.e. ECCT in physics research and related applications
- 9.f. Pulse applications, including passive components and transducers for power pulses
- 9. g. Embedded energy systems

## **Topic 10: DATA ANALYSIS, ARTIFICIAL INTELLIGENCE, AND COMMUNICATION ISSUES**

- 10.a. Data analysis applied to Power Electronics and drives systems
- 10.b. Application of AI to Power Electronics and drives systems
- 10.c. Communication for Power Electronics
- 10.d. Wireless control
- 10.e. Diagnostics

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## ***Presentation of Papers***

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Contributions to EPE'19 ECCE Europe must be presented either as a lecture presentation or as a dialogue presentation. A manuscript must be submitted in English in both cases for inclusion in the Conference Proceedings (electronic version only). Papers for lecture sessions will be strictly limited and selected on the basis of wide audience appeal, ease of understanding and potential stimulation of broad ranging discussion.

Dialogue presentations will take place in the afternoon. No lecture session will be organized during the dialogue sessions.





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## Content of Synopses

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The synopses should consist of a 3 to 5 pages anonymous summary, including an abstract with no more than 50 words; topic number and indication of the preference for dialogue or lecture presentation (to be clearly mentioned), key diagrams and a references list.

The synopses will be submitted using the host of the conference on the Internet. A link to the site will be available from: [www.epe2019.com](http://www.epe2019.com), a link from <http://www.epe-association.org> will be available as well. Detailed information and guidelines can be downloaded from the site to help you preparing the needed material for submitting a synopsis. The site will be open for upload from 8 November 2018 onwards.

Authors of papers provisionally selected for presentation will receive a notification and can download the instructions for preparing the dialogue papers and/or the lecture papers from the Internet site. Final selection will be based on the full paper. The paper will only be included in the Conference Proceedings after receipt of one full registration fee per paper in due terms. Student registration fee is only valid for student participants, not for authors. One single author may not present more than two (2) papers. In that case, the fee to present the two papers will be 150% of the registration fee.

A selection of outstanding conference papers will be published afterwards in the EPE Journal, which is an ISI registered journal.

The papers presented at the conference will also be registered in IEEE Xplore.

All presented papers will be listed in the Web of Science (formerly Web of Knowledge), INSPEC database for Engineering. Selected papers published in the EPE Journal will be automatically included in the Web of Science – Core Collection and get a WOS-Accession number. The Organizing Committee works toward ensuring that all conference papers are listed in the Core Collection as well. It is already the case since the 2014 edition.

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## Tutorials – Call for Proposals

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Several tutorials will be held prior to the conference. Authors willing to propose a tutorial at EPE'19 ECCE Europe are invited to send a proposal to Brigitte Sneyers at the scientific secretariat (EPE Association, c/o VUB-IrW-ETEC, Pleinlaan 2, B-1050 Brussels, Belgium, e-mail: [bsneyers@vub.ac.be](mailto:bsneyers@vub.ac.be)) before 11 January, 2019. The proposal will consist of a three-page summary including tutorial title, name and affiliation of the lecturer(s), tutorial objectives and audience, topical outline and provisional schedule of the tutorial.

The tutorials will be organized on Monday 2 September 2019. The tutorials will take place at the Polytechnic School of the University of Genova, close to the city center of Genova.

Tutorial proposals are welcome in all topics related to the conference topics.

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## Deadlines

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Intending authors should note the following deadlines:

Receipt of synopses: **14 November 2018**

Notification of provisional acceptance: **1 March 2019**

Receipt of full typescript for final review: **5 June 2019**



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## *Working Language*

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The working language of the conference is English, which will be used for all printed material, presentations and discussions.

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## *Programme and Registration*

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The provisional programme and registration form will be available from the Internet site early summer 2019.

Access to the full papers will be given with password to all registered participants, 1 or 2 weeks before the conference, to allow attendees to prepare their participation.

Additional information will be available on: <http://www.epe2019.com>

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## *Venue*

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The conference will take place at the Magazzini del Cotone Conference Centre in downtown Genova, which offers facilities and services of international quality meeting standards. Wi-Fi access will be free for attendees, everywhere in the congress centre.

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## *Exhibition*

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There will be an exhibition integrated in the event.

If you would like to know more details please go to [www.epe2019.com](http://www.epe2019.com)

You can also contact us via e-mail to [bsneyers@vub.ac.be](mailto:bsneyers@vub.ac.be) or [info@epe2019.com](mailto:info@epe2019.com)

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## *Conference Organizing Committees*

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### **Conference Chairperson**

Mario Marchesoni, Università di Genova, Italy

### **Programme Chairperson**

Philippe Lataire, Vrije Universiteit Brussel, Belgium (EPE)

### **Local Organizing Committee**

**Grazia Esposito, Gianmarco Maragliano, Massimiliano Passalacqua, Isa Traverso, Luis Vaccaro – University of Genova**

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Mauro Zigliotto	University of Padova

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# EPE ECCE Conference Newsletter



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