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2019 Workshop on Power Electronics and Power Quality Applications (PEPQA)

Dear colleagues,

We have the pleasure of inviting you to submit your technical research works for PEPQA 2019. **The 4th International Workshop on Power Electronics and Power Quality Applications will be held on May 30-31, 2019, at Universidad Nacional de Colombia, Sede Manizales, (Manizales, Colombia).** This biannual workshop provides a space for students, academics, and industry professionals to collaborate on meeting the ever-increasing **power electronics and power quality challenges in the Latin America region.** The workshop covers a range of topics, including power electronics (PE) converters, adjustable speed drives, PE in transmission and distribution, power quality (PQ) analysis, PQ design and modeling, and simulation & education in PE/PQ.

Power electronics converters

- Circuits, control and modulation strategies
- Uninterruptible Power Supplies (UPS)
- *Multilevel and emerging topologies*
- Power Factor Correctors (PFC)
- Transport & automotive

Adjustable speed drives for electrical machines

- *Energy efficient drives*
- Adjustable speed drive systems
- Drives for permanent magnet machines
- Drives for reluctance machines
- Drives for other machines

PE in transmission and distribution

- *Smart grids and micro-grids*
- Power conditioning and active filters
- Distributed power and alternative energies
- Adjustable speed generation systems
- Measurement and control

Power Quality analysis

- *Power quality analysis and policies*
- Economic impacts of power quality
- Impacts on systems and equipment
- Smart Grid considerations for power quality
- Distributed generation and power quality

Power Quality design

- Power quality mitigation technologies
- *Power quality case studies*
- Power quality monitoring
- Power quality standards and regulations
- Planning with power quality considerations

Modeling, simulation and education in PE and PQ

- Modeling approaches
- *Simulation strategies and tools*
- Real time simulation
- Hardware in the loop
- Methodologies in education

Papers are peer-reviewed and selected on the basis of technical quality, topic

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considered for publication. It is important to highlight that, since the first edition, PEPQA's proceedings are indexed by IEEEExplore and selected papers have been accepted at IEEE Transactions on Industry Applications.

Paper submission deadline: February 15, 2019

Acceptance notification: April 1, 2019

Camera-ready: April 28, 2019

Conference: May 30 – 31, 2019

Submission via [EasyChair](#).

We will appreciate if you please share this message with your colleagues who are interested or involved in power electronics and power quality research.

Best regards,

PEPQA - Organizing Committee

IAS Colombia Section, Universidad de los Andes and Universidad Nacional de Colombia Sede Manizales Student Branch Chapters.

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