



IEEE Power Electronics Society

6TH ANNUAL SOUTHERN POWER ELECTRONICS CONFERENCE

December 6-9, 2021 Kigali, Rwanda



CALL FOR PAPERS

The 6th IEEE Southern Power Electronics Conference (SPEC 2021), offers an ideal opportunity for researchers, engineers, academics and students from all over the world to bring the latest technological advances and applications in power electronics to the Southern Hemisphere, as well as to network and promote the discipline.

Prominent researchers in the field will present keynote speeches during a four-day program that also features tutorials and technical sessions on theory, analysis, design, testing and advances within the field of power electronics.

The conference venue is situated in Kigali - the capital of Rwanda. The city is very safe, clean and has a pleasant climate year round. Scholarships are offered to IEEE PELS students, and the papers presented at the conference will be included in the IEEEExplore Digital Library.

Important Dates

- July 18, 2021 Digest Submission
- September 15, 2021 Notification of Acceptance
- October 15, 2021 Final Paper Submission

Hosted by:



Topics of interest include but are not limited to:

- Devices & components
 - Device packaging and characterization
 - New developments (WBG and others)
 - Modelling
 - Passive components
 - Reliability
 - Device protection
- Power converters
 - Converter design
 - Modular multilevel converters
 - Resonant and HF converters
 - WBG power electronics
 - EMI / EMC and HF phenomena
- Power electronics in electric utilities
 - Mini and micro-grids
 - Grid integration of renewable sources
 - HVDC and FACTS
 - DC grids
 - DC circuit-breaker
- Energy Storage
 - Batteries, supercapacitors, flywheel
 - Energy management systems
 - Second-life battery systems and applications
 - Energy storage for stand-alone and grid connected renewable energy systems
 - EMI / EMC and HF phenomena
- E-mobility
 - Power converters for electric vehicles
 - E-tractors
 - Power electronics and control for drones
 - Electric motorcycles
 - Control and energy management
 - All-electric aircraft and ship
 - Pilot studies
- Power supplies
 - Wireless transfer of power
 - Low and high voltage DC power supplies
 - Uninterrupted power supplies
 - Distributed power supplies
- Motor drives and actuators
 - Modelling, control and design of drives
 - Robotic applications
 - Industrial applications
 - Servo drives
- Other related topics
 - Power electronics education
 - Hybrid teaching of power electronics
 - Protection and data analytics
 - Power electronics for medical applications
 - Cyber-physical aspects for power electronics



Mountain Gorillas



Kings Palace



Convention Center

Prospective authors are invited to submit a digest explaining the problem that will be addressed by the paper, author's contribution, how it is different from the closest existing literature, the major results that have been obtained and their significance.

Please check <http://www.ieee-spec21.org> for detailed guidelines regarding the digest preparation and submission.

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