

Pubs Education



AI Policy for PELS Publications

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Call for Papers: PELS Publications

JESTPE

Special Issue: Applications of Wide-bandgap Technology for Innovative Future Grid Applications

Deadline for Submission of Manuscripts: March 1, 2026.

Guest Editors: Leon M. Tolbert, Shiqi Ji, Carl Ho

Special Issue proposals within scope of the journal are welcome, guidelines available online at [PELS website](#) and [IAS website](#). For further information, [email](#) JESTPE DEiC Sudip Mazumder.

TPEL

Special Section: Advanced Model Predictive Control for Resilient Converter-Dominated Electrical Grids

Deadline for Submission of Manuscripts: March 31, 2026.

Guest Editors: Jose Rodriguez, Zhenbin Zhang

Special Section: Power Semiconductor Devices: From Modeling & Characterization to Gate Driving and AI-Enabled Technologies

Deadline for Submission of Manuscripts: March 31, 2026.

Guest Editors: Alan Mantooth, Leo Lorenz

Special Section: High-Power Electronics for Modern Energy Grids

Deadline for Submission of Manuscripts: March 31, 2026.

Guest Editors: Giovanni De Carne, Jinpeng Wu, Drazen Dujic

IEEE Power Electronics Magazine



Wishing all of you and yours a happy holiday season! While we barrel towards Christmas this holiday season, recognizing the many celebrations that go on during this time of year, we want to thank you all for your participation in our worldwide community.

We also have a gift for you in the form of expanded multimedia coverage on the *IEEE Power Electronics Magazine* [website](#). We'll be posting technology demonstration and explanation videos in our Industry News section going forward, providing you with even more news and information from the power electronics community.

Get Access to Previous Issues

For editorial from back issues of the magazine, visit our [website](#). You will discover Open Access columns, Society News, Industry News, and much more. Stay tuned for the December 2025 issue! The issue will focus on Digital Twins and AI Tools.

IEEE Transactions on Power Electronics (TPEL)



Call for Associate Editors

TPEL is accepting applications and nominations for Associate Editors. Please visit the [website](#) for the application requirements.

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TPEL editors have selected these papers to highlight from the [December 2025](#) issue.

"Planar Rogowski Coil Based Short-Circuit Detection and Partial Open-Circuit Recovery of the Resonant Capacitor in Series-Resonant DC Transformers" by Rachit Pradhan, Shreyas B. Shah, Yulei Wang, Ahmed Elezab, Samuel Hemming, Member, Giorgio Pietrini, Mohamed I. Hassan, Piranavan Suntharalingam, Mario F. Cruz, and Ali Emadi. This article discusses the design of a planar Rogowski coil in accordance with MIL-PRF-31032 and its signal chain optimization for the measurement of ac current on the high-frequency link. A novel failure detection method is introduced to simultaneously identify both partial open-circuit (OC) and short-circuit failures in the resonant capacitor network by repurposing the ac link current measurement, conventionally used for over-current protection. The method also enables recovery from partial OC failures to restore normal operation. The proposed scheme is especially suitable for two-stage (Pre-regulator + DC Transformer) dc/dc converter architectures used in domains with high-reliability expectations, such as military or aerospace.

"Dual-Active-Bridge Based Self-Balancing DC-DC Converter With Coupled Inductor for Bipolar DC Microgrids" by Guangfu Ning, Ribo Zhang, Li Jiang, Yonglu Liu, Yao Sun, and Mei Su. Although bipolar dc microgrids exhibit enhanced reliability and transmission efficiency compared to unipolar dc microgrids, they are prone to voltage imbalance issues. This article proposes a dual active bridge (DAB) based bipolar dc-dc converter with coupled inductors to automatically balance bipolar output voltages under any load conditions. The proposed converter can operate with a simple single phase-shift modulation. Moreover, the coupled inductor is the key to realize self-balancing and roles as

the power transfer inductor as well. The zero-voltage-switching can also be achieved for all switches under different load conditions. The operation and self-balancing principles are analyzed in detail. The characteristics of the proposed converter are well verified by a 1 kW prototypes under different load conditions.

IEEE Power Electronics Letters

The **December 2025** issue of TPEL features 6 Letters. Here is one highlighted Letter.

"An Underwater Simultaneous Wireless Power and Analog–Digital Hybrid Signal Transfer System" by Bo Luo, Mengyao Wang, Jie Tang, Tiantian Wang, Longlei Bai, and Jiang You. An underwater simultaneous wireless power and analog–digital hybrid signal transfer system is proposed in this letter to meet the needs of analog and digital signal transmission in underwater sensor networks in seawater. The system transmits two digital signals and one analog signal through the same coil, meeting the practical needs of multiple signal transmissions, improving the communication rate, and retaining the precision and continuity of analog signals as well as the accuracy of digital signals. The system uses a coaxial coil coupling structure, with the outer ring for power transmission and the inner ring for signal transmission, featuring a simple and compact design. The experimental platform achieved a 400 W output power, 1 Mbps bidirectional digital signal transmission, and 20 kHz unidirectional analog signal transmission in seawater, with a transmission efficiency of 90.8%, verifying the feasibility of the proposed theory.

IEEE Journal on Wireless Power Technologies (JWPT)

Meet the Associate Editors

We are proud to introduce the distinguished Associate Editors of the *IEEE Journal on Wireless Power Technologies* (JWPT). Their expertise and dedication will help shape the journal and ensure the highest quality of published research.

Wenquan Che – South China University of Technology, China

Alireza Safaei – Apple Inc., USA

Naoki Shinohara – Kyoto University, Japan

Grant Covic – University of Auckland, New Zealand

With their diverse backgrounds spanning academia and industry, they bring invaluable knowledge to support JWPT's mission of advancing innovation in wireless power technologies with a strong emphasis on hardware implementation.

We are delighted to have them on board and look forward to their contributions in guiding the journal's success.

For more information on JWPT, click [here](#).

IEEE Transactions on Transportation Electrification (TTE)

Authors are encouraged to submit their manuscripts for publication in TTE. All manuscripts can be submitted through the IEEE Author Portal. For more information, please click [here](#).

To read the December 2025 issue of TTE, please visit [Xplore](#).

IEEE Open Journal of Power Electronics (OJPEL)

The *IEEE Open Journal of Power Electronics* (OJPEL) is pleased to announce that current Co-Editor-in-Chief Wenkang Huang will become the Editor-in-Chief in January of 2026. Current EIC and Division II Director Alan Mantooth will assist with the transition. Thank

you to both editors for your strong support of OJPEL. For more on OJPEL, please visit us [online](#).



Alan

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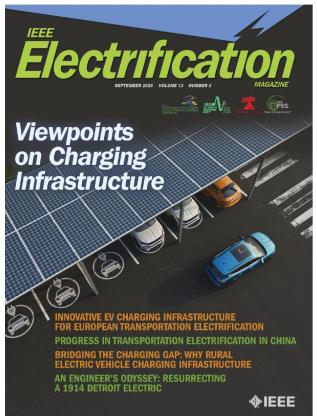


Wenkang Huang
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(USA)

IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE)

Fernando Briz, JESTPE EIC, is pleased to introduce, on behalf of the editorial board, the new Editor and Associate Editors who have joined the journal in 2025. The Call for Associate Editors was announced in the PELS and IAS Newsletters, as well as through the TCs of both Societies. More than 250 qualified candidates applied, of which less than 10% could be selected. Technical qualification, suitability to JESTPE needs, and geographical and gender diversity were considered for the selection process. At present, the editorial body of JESTPE consists of 18 editors and 82 Associate Editors spread worldwide. The workload involved in carrying out editorial activities for a high-quality journal such as JESTPE is highly demanding and must be undertaken without neglecting many other obligations to their institutions. The JESTPE Editors and Associate Editors are, undoubtedly, the backbone of the journal. To access the latest issue of JESTPE, please visit [online](#).

IEEE Electrification Magazine



The latest issue of *IEEE Electrification Magazine* focuses on critical enabling technologies and infrastructure for modern multi-modal electrified transportation systems. If you are interested in submitting an article to the magazine, please [email](#) the editorial team. For detailed submission guidelines, please visit the magazine [website](#).



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