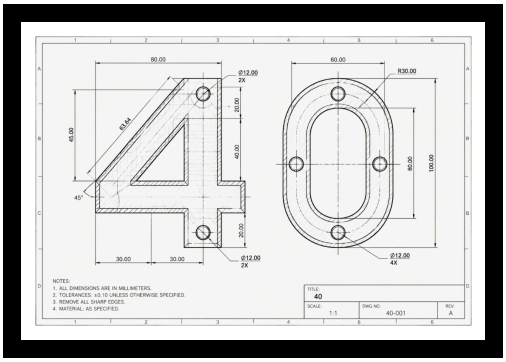
PELS Products Newsletter
November 2026 | Issue 76

In Search of Snapshots: 40 Years of PELS



In 2027, PELS will celebrate its 40th Anniversary. To mark this milestone, PELS is planning a special publication dedicated to the evolution of PELS and the people behind its success. We invite you to contribute to this commemorative issue, which will include features on technologies, a visual history of our organization, society milestones, essays, reflections, and much more.

We are currently seeking photographs—such as favorite memories, conference highlights, social events, product launches, or workshops—to be featured in photo collages and on the publication cover. So start scanning in those prints, Polaroids, magazine clippings, group photos, old newsletters, etc. to digital format. Kindly provide detailed captions for all photos, including the occasion, date, names of individuals depicted (if available), and any relevant commentary. We also welcome your insights and suggestions regarding major milestones, breakthroughs, or product developments in power electronics technology dating back to the 1960s.

To contribute, please prepare a zip file containing your materials (notes, captions, photos) and upload it to the following **link**. Photos should be 300 dpi, jpeg format, 1500 X 1200 pixels. In your correspondence, also include a sentence that we have permission to publish your photography. If there are photo credits required, please indicate this as well.

The deadline for submissions is December 1, 2026. Thank you for your support in honoring our history. If you have any questions, please **email** Mary Beth Schwartz, PELS Publications Administrator.

Pubs Education: AI

AI Search

Did you know that PELS has a website function, an AI-powered search? This search, utilizing vector-based or semantic search, represents a major advancement over traditional keyword-based methods. Unlike keyword search, vector search comprehends the meaning behind words, delivering more relevant results by analyzing the context and relationships between terms. This PELS pilot project currently includes two years of full-text articles from *IEEE Transactions on Power Electronics* (TPEL). For guidelines on using the search, please visit online **here**. Don't forget to provide feedback on the site regarding your experience with the AI-powered search.

AI Policy for PELS Publications

With the rapid development of AI technology, we would like to share the following **guidelines** for authors and reviewers.

For paper authors: “The use of content generated by artificial intelligence (AI) in an article (including but not limited to text, figures, images, and code) shall be disclosed in the acknowledgments section of any article submitted to an IEEE publication. The AI system used shall be identified, and specific sections of the article that use AI-generated content shall be identified and accompanied by a brief explanation regarding the level at which the AI system was used to generate the content. The use of AI systems for editing and grammar enhancement is common practice and, as such, is generally outside the intent of the above policy. In this case, disclosure as noted above is recommended.” (*IEEE Publication Services and Products Board Operations Manual*, Section 8.2.1.B.10)

For paper reviewers: “Information or content contained in or about a manuscript under review shall not be processed through a public platform (directly or indirectly) for AI generation of text for a review. Doing so is considered a breach of confidentiality because AI systems generally learn from any input.” (*IEEE Publication Services and Products Board Operations Manual*, Section 8.2.1.C.6)"

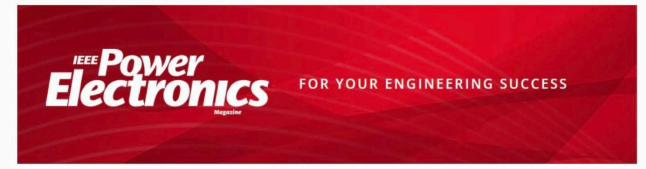
Author Portal & ScholarOne
PELS has implemented AI and self-citation policies in the Author Portal as well as ScholarOne. This ensures our compliance with the **IEEE PSPB**.

Call for Papers: JESTPE and TPEL

JESTPE
Special Issue: Power Electronics for AI Data Centers: Architectures, Stability, Control
CFP **Link**
Guest Editors: Marco Liserre and Mark Dehong Xu
Deadline for Submission of Manuscripts: February 15, 2027

TPEL
Stay tuned to social media for the TPEL Letters Special Section on Industry-Driven Innovations in Power Electronics. Submissions will open in early December.

IEEE Power Electronics Magazine



December Issue Coming Soon
The December 2026 issue is now in production. Some features include:
*Before and Beyond Grid-Forming: SYNDEM and Virtual Synchronous Machines
*The Next Generation of Medium Voltage Power Drive System
*Beyond-Tomorrow Power Electronics Research—Electrification of Hard-to-Abate Sectors
*Hybrid DC-DC Converters for Autonomous IoT Edge Ecosystems
Architectures, Adaptive Control, and Integrated Power Management
*Reliability Assessment of Advanced GaN HEMTs Under AI Data Center Mission Profiles
*Energizing Next-Generation AI HyperProcessors
...and a special surprise!

Get Access to Previous Issues
For more editorial content from previous issues of the magazine, please visit our **website**. You will discover a variety of Open Access columns, Society News stories, company news, special podcasts hosted by the EIC, and more.

IEEE Transactions on Power Electronics (TPEL)

IEEE Transactions on Power Electronics (TPEL) is accepting applications and nominations for the opening of:

•TPEL Co-EICs for Regular Papers
•TPEL Co-EICs for Letters

The term will be 3 years from January 1, 2027 to December 31, 2029, with the possibility of renewal for another 3 years. The deadline for receipt of all materials is November 30, 2026.

For more information, please click on the **Call**.

TPEL Editor's Corner: **Experimental Validation and Initial Submission Length**
To maintain the high technical standards of *IEEE Transactions on Power Electronics* (TPEL) and ensure an efficient review process, authors are reminded of two important submission requirements.

First, experimental validation is required for TPEL manuscripts. Experimental results obtained from full-hardware test setup are generally required for publication in IEEE TPEL. Manuscripts relying on hardware-in-the-loop tests are generally not considered sufficient unless a compelling justification is provided.

Second, the initial submission of regular paper is expected to be no more than 12 pages, including figures, tables, and references. Authors are expected to present their contributions in a concise and well-organized manner. Manuscripts that substantially exceed this limit may be returned without review for length reduction before entering the peer-review process.

Meeting these requirements at the time of submission will help facilitate a timely and effective review process.

Xiongfei Wang, Editor-in-Chief, *IEEE Transactions on Power Electronics* (TPEL)

IEEE Open Journal of Power Electronics (OJPEL)

Call for Applications: OJPEL Co-Editor-in-Chief
The *IEEE Open Journal of Power Electronics* is accepting applications and nominations for the opening of Co-Editor-in-Chief. The term will be for 3 years from January 1, 2027 to December 31, 2029. The application deadline is November 16, 2026. For more information, please click on the **Call**.

IEEE Transactions on Transportation Electrification (TTE)

Manuscript Submissions
Authors are encouraged to submit their manuscripts for publication in TTE. All manuscripts can be submitted through the **IEEE Author Portal.** To read the October issue, please click **here**.

IEEE Journal on Wireless Power Technologies (JWPT)

Wired and Wireless Charging—One Power-Conversion Platform
Can an electric vehicle charger support both plug-in and wireless charging without fundamentally redesigning its power-conversion hardware?

A paper in the ***IEEE Journal on Wireless Power Technologies***, by researchers from Oak Ridge National Laboratory, explores this question for bidirectional charging, allowing energy to flow both to and from the vehicle.

The study compares four resonant compensation configurations and examines how circuit tuning can accommodate the different coupling conditions of wired and wireless operation. A 60-kilowatt charger case study illustrates the feasibility of retaining a common hardware platform through compensation tuning rather than structural modification.

For charging-system developers, the key opportunity is hardware reuse across different charging methods. The analysis provides design guidance on voltage regulation, internal currents, and operating frequency—helping engineers assess the trade-offs behind a unified charging architecture.

Read the **paper** on *IEEE Xplore*.

IEEE Electrification Magazine







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This message is being sent to you because of your membership with and/or your interest in publications of the IEEE Power Electronics Society. For any questions about the newsletter, please contact Mary Beth Schwartz (marybeth.schwartz@ieee.org).

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