



IEEE Journal of Emerging and Selected Topics in Power Electronics

Manuscript Submission Guidelines

**Sponsors: IEEE Power Electronics Society, IEEE
Industry Applications Society**

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About the Journal

*Power electronics has matured as a discriminating technology for a wide variety of applications in appliances, commercial settings, energy efficiency, handheld devices, industrial settings, and transportation. The technology has evolved tremendously to approach a wide range of applications and implementations that push limits in dynamics and energy conversion performance. As a result, the amount of research work for emerging and selected topics as well as the need for close collaborations among academia, industry, and research are growing at an unprecedented speed. The challenge in the coming years lies in developing new techniques at the lowest possible cost, size, and weight for emerging applications. To address this technology trend to serve members better, the **IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE)** was launched.*

I. Standards for Manuscripts

A. Accepted Types

Below are the following types of manuscripts that JESTPE will accept:

Regular Papers: Regular papers should be ten pages in final length*.

Special Issue Papers: Special issues of JESTPE have defined themes and include papers that deal with the specified theme. Calls for these papers are advertised on multiple media platforms and any accepted papers are published in a special issue or section. Special issue papers should be ten pages in final length*.

*Any manuscript exceeding the specified page limit is subject to over length page charges. Please see the "Page Charges" section for more details.

B. Scope

The scope of JESTPE includes new results in the field of power electronics. For instance, papers that address original application, circuit, component, control, device, module, or system issues are of interest. Manuscripts that do not have sufficient overlap with subjects in the power electronics field should be submitted to other journals that relate to those fields. Possible subjects include circuit theory, component manufacturing technologies, and device physics. Manuscripts that are historical or tutorial in nature will be considered only if they are within the scope of JESTPE.

C. Uniqueness

Manuscripts submitted to JESTPE should report on original results not previously presented in another archival publication, including but not limited to any IEEE Transaction or Journals. Also, the

manuscript must be without significant duplication of other manuscripts by the same and/or different authors.

Each submission is sent to a similarity and authentication program that checks each word in it against previously published articles and websites to determine its originality. Manuscripts that do not pass this examination will not be reviewed for publication.

Papers that have been rejected by JESTPE but are submitted again whether improvements were made or not will be rejected automatically and will not enter the review process. At the approval of the Editor in Chief, a rejected paper that has been substantially improved can be submitted as a new submission six months after the date of rejection.

By submitting the manuscript to JESTPE, the authors acknowledge that the paper has not been submitted to another journal simultaneously, except for conference papers (see below). If a related but distinct work has been previously published by the authors, the manuscript must cite that specific work and make the distinction clear. Additionally, if a related but distinct work is simultaneously under review at another journal, the cover letter must include the details of the other submission and explain the distinction. A copy of the other work may be required to verify that there is no significant overlap in the content.

i. Conference Papers

Any papers that were previously published in a conference record or proceeding sponsored by the IEEE Power Electronics Society (PELS) and the IEEE Industry Applications Society (IAS) can be considered

for publication in JESTPE. The conferences included are the Applied Power Electronics Conference (APEC), Energy Conversion Congress and Exposition (ECCE), and International Telecommunications Energy Conference (INTELEC). When submitting, the authors must indicate any (1) prior presentation or publication at a conference or (2) prior submission to any publication.

The paper is not required to have been presented or published at a conference. It is required that significant improvements and additions to the paper are made prior to submission to JESTPE*.

The original conference paper must be listed in the reference section. Also, the original conference paper must be in a footnote that is placed after the title on the first page of the manuscript.

Copyright release may be required if the publication is copyrighted by an entity other than the IEEE. If it is needed, it is the responsibility of the authors to obtain a copyright release and submit it to JESTPE.

Since all results submitted to JESTPE are expected to be cutting-edge research, the authors must submit their extension(s) of their conference papers in a timely manner.

*See IEEE's [PSPB Operations Manual](#), Section 8.1.7.E.

ii. Graphics

Any graphics that are reused from other publications must include the reference number at the end of the caption. If the original graphic is by a different author, the authors must obtain permission to use it from the original author. Requests for approvals to use graphics from IEEE publications should be emailed to copyrights@ieee.org. Requests for approvals to use graphics from non-IEEE publications should be sent to the appropriate copyright holder. The status of these approvals should be stated in the cover letter.

II. Manuscript Requirements

JESTPE uses *ScholarOne Manuscripts/Manuscript Central (Manuscript Central)*, which is a professional web-based manuscript submission and peer review tracking system. **First-time users must create a new account.** A manuscript submission can be started [here](#). Authors will need to supply all the required information prior to submission*. Additionally, authors are responsible for understanding the following guidelines:

*Additional help is available on *Manuscript Central's* website.

A. Active Content and Multimedia

Supplemental digital content may be submitted with a paper, such as multimedia files (e.g., a video demonstration or presentation) and datasets. For more details on this option, refer to "Prepare Supplementary Materials from the [IEEE Transactions and Journals Department](#).

B. Electronic Files

Submitted files should be .pdf files. While this allows authors to create manuscripts with different word processing systems, compatibility problems may arise. It is the authors' responsibility to make sure that *Manuscript Central's* PDF renders correctly and is in the proper format. **The maximum file size limit on Manuscript Central is 40 MB.**

Standard fonts (e.g., Times Roman (serif), Helvetica, Arial (sans serif)) and Symbol are recommended since unusual fonts may create incompatibilities with *Manuscript Central* and delay processing. If special symbols require other fonts, embed the font in the PDF document.

Occasionally, issues arise with specific file formats (e.g., PDFs created in LaTeX) or methods of conversion that can make it impossible to process a paper file through a similarity check on *Manuscript Central*. These issues can be resolved by doing the following:

1. Open the file in Adobe Acrobat or Adobe Reader
2. Choose the "Save As" option for the PDF
3. Re-upload the file

If this does not work, the PDF file may need to be saved as a lower Adobe version (1.7 or earlier). Sometimes 1.6 and 1.7 files may not work, so the file will need to be downgraded to a 1.5 version.

C. Format

All manuscript types should be prepared on one side of letter-size paper (8.5" by 11" or A4 sizes) with the double-column, single-spaced format only. Manuscripts should include:

1. All figures, tables, captions, and references
2. Author bylines beneath the paper title (this should match what is listed in *Manuscript Central* and is a requirement by IEEE at all stages of the review process)

Initial submission should not include author biographies, author photos, and copyright form(s). All submissions should not include page and line

numbers since *Manuscript Central* adds them automatically.

A helpful resource available to authors is IEEE's [Author Center](#), which includes a graphics analyzer tool, PDF checker, Reference Preparation Assistant, and more.

i. Abstract

The first page of the manuscript should contain an abstract that is concise and a comprehensive reflection of what is written. The abstract must:

1. Be self-contained and not have any abbreviations, footnotes, or references
2. Be between 150 and 200 words (about one paragraph)
3. Indicate the subject and scope of the paper
4. Summarize the authors' conclusion so that the abstract can be used in an information-retrieval system (if possible)
5. Not contain displayed mathematical equations or tabular material
6. Read well and be grammatically correct

Submitted manuscripts should not include a cover page. Manuscript titles should avoid extraneous words that have limited search value (e.g., "new" and "novel"). A footnote on the first page should indicate whether the paper has been presented at a conference or submitted elsewhere previously. If so, the conference paper should be listed in the reference section and specify the conference name, dates, and location*. If a related but distinct manuscript has been submitted elsewhere, the manuscript should be listed along with an explanation of the distinction between the topics. The editors may request a copy of the related manuscript if they have questions about the overlap.

*See "Uniqueness" section for additional information.

ii. Author Byline

When creating the author byline for the manuscript, be sure to include all authors who participated in creating the manuscript. *The author byline cannot be changed after submitting the original manuscript.* Because of this, the author byline cannot be adjusted when:

- The original/revised manuscript is in the review process
- Authors are completing any revisions before sending it as a revision
- Final files need to be submitted for the production team

iii. Figures and Images

For increased readability during the review process, figures, images, and tables should be spread throughout the text of the manuscript and, if possible, accompanied by captions. Do not submit an image or a figure that is a scan of a printed version or in the form of a preview or display-type version converted by different software. To help you make the best impression, please make sure to:

1. Submit the highest quality files possible.

The figures and images should be sharp, noise free, and of good contrast that is suitable for final publication (TIFF). Figures and images should be at a minimum resolution of **300 dpi***. IEEE's graphic teams will do their best, but they cannot "improve" a graphic that is submitted at a low resolution or low-quality format.

2. Submit photographs in their original digital format (if possible).

If a scan is necessary, it should be at a minimum resolution of **300 dpi***.

3. Use lettering on figures and images only when necessary and in as large of a font as possible.

All lettering must be at least 8 points in the final printed size, even if the size of the figures and images must be reduced. This ensures that everything will be clearly legible to the readers. If the font is too small, the copyeditor will leave the figure or image in single-column size so the lettering remains legible. This may increase the page count of the final paper and is undesirable. Additionally, make sure the lettering is consistent with the lettering that appears in the text (e.g., Resistor "R" in the text should not be labeled "r" in the figure).

4. Think about the colors of the figures and images.

If they will be reproduced in grayscale, make sure the figures are clear and readable and **DO NOT** refer to them by color. Instead, make sure to distinguish different elements by text labels, figure keys, or different patterning. Make sure the colors used to create them are clear and readable in grayscale. Dark colors are easier to see, so avoid using lighter colors.

For additional information about images and figures, visit IEEE's ["Create Graphics for your Article"](#) page.

*Increasing the resolution of a low-resolution image **will not** improve the image's quality.

iv. References

References should be indicated using numbers in square brackets (e.g., [1], [2], [3]) and in a bibliography at the end of the manuscript. References should be written in the following style required by IEEE:

Conference Publications: Authors (first initials followed by last name), title of paper, in title of conference, date of conference, and page numbers (inclusive)

Example: A. B. Researcher and I. N. Elper, "Loss-based analysis of switching converters under closed-loop controls," in *Proc. IEEE Applied Power Electronics Conf.*, 2010, pp. 3917-3926

Periodical Journal Publications: Authors (first initials followed by last name), title of paper, title of periodical, volume, page numbers (inclusive), month and year

Example: D. Rothmund, T. Guillod, D. Bortis and J. W. Kolar, "99% Efficient 10 kV SiC-Based 7kV/400 V DC Transformer for Future Data Centers," *Journal of Emerging and Selected Topics in Power Electronics*, Vol. 7, No. 2, pp. 753-767, June 2019

Books: Authors (first initials followed by last name), book title, Publisher location: publisher name, year, chapter or page numbers

Example: T. Suntio, T. Messo and J. Puukko, *Power Electronic Converters, Dynamics and Control in Conventional and Renewable Energy Applications*. Weinheim: Wiley-VCH, 2018, Chap. 16

D. Language

Inadequate English obscures the technical content of the manuscript. Therefore, the authors are responsible that their submitted manuscript is formulated in acceptable English. The volunteers who review the manuscripts are leading international experts in the technical content covered by JESTPE and will not assist authors in correcting their language.

Authors who need assistance with editing the English in their manuscript should obtain help prior to submission. These English language editing services can refine the language of the manuscript and reduce the risk of rejection without review. IEEE authors are eligible for discounts at several of these language editing services*. Please visit the IEEE Author Center to learn more.

*These services are fee-based and do not guarantee acceptance.

E. Supplementary Materials

All supplementary materials must be submitted for review along with the main manuscript. Extracting supplementary materials from a manuscript that is already accepted for publication is not acceptable. Any supplementary materials that are not reviewed by the reviewers will not be published with the main manuscript.

If the main manuscript and supplementary materials are accepted for publication and they exceed the page limit, the authors will be required to pay the extra charges.

III. Additional Information

A. Experimental Components

JESTPE puts a premium on the experimental and hardware-based verifications of proposed designs, concepts, control algorithms, and studied systems. It is expected that all papers submitted to JESTPE should have experimental verification components except in extreme cases (e.g., where scale down laboratory experimental set-ups are simply impossible).

B. Literature Review

An effective literature review is essential for all submissions. Inadequate references are grounds for rejection. Authors should pay specific attention when documenting their work in relationship to the known literature.

C. Multi-Part Papers

The submission of manuscripts in a series (e.g., Part I, Part II, etc.) on the same subject is discouraged. In these scenarios, the authors will be asked to consolidate the manuscripts into a single manuscript. If multi-part manuscripts are submitted, then each individual manuscript will be evaluated on its own merits for individual publication. If the need arises for a paper to be published in parts, JESTPE will only pay for ten pages out of the entire series of papers. Authors will be responsible for the excess page charges beyond the ten pages covered by JESTPE*.

*Example: If part one is 10 pages and part two is 10 pages (20 pages total), JESTPE will cover 10 pages and the authors are responsible for the remaining 10 pages.

D. Page Charges

In final format, papers that exceed the specified page limit will incur an excess page charge of USD 200 per page*. After the final proof has been approved, the IEEE Reprints Department will prepare an invoice and notify the corresponding author of potential excess page charges. Authors must agree to pay the

excess page charges before the manuscript is sent to IEEE for publication.

*See "Types" section for specified page limits for each manuscript type.

E. Review Process

The articles in JESTPE are peer reviewed in accordance with the requirements outlined in the [IEEE Publication Services and Products Board Operations Manual](#). All published manuscripts were reviewed by a minimum of two independent reviewers and went through a single-anonymous peer review process*.

*A single-anonymous peer review process is when the authors do not know the identities of the reviewers but the reviewers know the identities of the authors.

F. Hard Copies of Issues

Please note that JESTPE no longer sends complimentary print copies to authors whose paper(s) have been published in an issue.