

Guidelines for Authors

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The IEEE Electron Devices Magazine (ED-M) invites contributions from potential authors, including feature articles, contributed open columns, letters to the Editor, errata and other items of potential interest to the readership. Articles prepared for ED-M should fall within the wider field of interest of the Electron Devices Society (EDS).

Contributions of Open Columns

Ideas for new columns of interest to ED-M readers and EDS members are always welcome! Please contact the Editor-in-Chief (ed-m-editor@ieee.org) about your proposal or submit your draft.

What are the guidelines for columns?

The primary goal of an open column is to provide the readers with a personal view about a topic of wider interest of ED-M readers. A column should ideally fit on one page of an ED-M issue, which is about 800 words, but longer columns may be accepted as well.

Manuscripts for the IEEE Electron Devices Magazine

ED-M is a publication of the IEEE EDS and focuses on the publication of general interest review, tutorial, and survey papers rather than the new research. Technical features should present a balanced picture of the state-of-the-art, rather than focusing on the research from your lab or company only.

Each issue of ED-M includes a "Focus Section," in which the technical features are invited by the Guest Editor, who is an acknowledged expert in the focus topic. The magazine also contains submitted technical articles, either related to an upcoming focus topic or an open topic. The technical content of an ED-M issue is about 60 pages per issue, consisting of feature articles and open and standing columns.

Good magazine articles differ from technical journal articles in several ways. Articles should be of interest to a broad audience and understandable by non-experts in the field. Equations should be used sparingly. Qualitative descriptions or graphs are preferred tools for explaining relationships. The use of diagrams or illustrations to explain qualitative concepts is encouraged. Full color illustrations are also encouraged.

Language should be suitable for a technically savvy, but non expert reader. Liberal use of headings and subheadings that may include "catchy" phrases or questions are appropriate. A reader should be able to get a good impression of what the article contains by briefly examining the figures and headings/subheadings of the article. While the article should not be a commercial for your organization, it can present results from your labs, along with photos and descriptions of your products.

All technical articles undergo peer review before being accepted. Sometimes an article will require multiple review/revision cycles prior to acceptance for publication. For example, a manuscript that will appear in the December issue of the magazine needs to be submitted by mid-June of the next year to provide enough time for review, revision, acceptance, and production.

Article Preparation Guidelines

What are the guidelines for feature articles?

Feature articles are review, overview papers, or tutorial articles. The primary goal of a review feature is to provide an overview or survey of a topic, describing the state of the art, citing examples from several sources, and providing some comparative description or analysis of these various examples. Authors may highlight their own work, but the more general context needs to be included in some depth, as well; the usual 1-2 paragraph introduction found in a research paper will not suffice.

Feature articles are typically about 6 pages in length, which is around 4,000 words, including lead page, figures, tables, and references. Authors of overlength manuscripts will be strongly encouraged to meet this target word length, to produce a punchier article more suited to the magazine. Longer printed articles may be submitted, but will have a higher chance of rejection.”

Is it alright to use figures from prior publications?

Previously published figures can be used as long as they are referenced. Figures used previously by IEEE publications, such as Transactions, do not need further permission. If the figures are from a non-IEEE source, written permission must be obtained from the copyright holder that allows the IEEE to republish them; this may be in the form of an email message. We can help you with this.

What is one magazine page?

Because the magazine uses either a one-column or two-column format for features, along with large headings and at least one graphic on the first page, the first page of a feature runs about 200-300 words. The second page, and all following pages of a regular article, can contain about 800 words each, if no graphs or tables are included. For example, a six-page feature article translates into a ~4000-word document. You need to factor in how much space your figures and tables are going to take.

How many figures/tables in a feature article?

Tables and figures subtract from the word estimates discussed above. Features typically include one or two figures/tables per printed page. Authors of magazine features are encouraged to use full color figures generously to explain concepts. All variables in a figure must be defined in the figure or in the caption. Figures along with their caption should be fully explanatory without having to read the text of the article.”

How many words will a figure/table displace?

Figures and tables vary quite a bit in size. The smallest figure displaces about 80 words, while the largest displaces about 400 words. On average, the ratio of figures/text for a feature article is about one-to-two. Some features have fewer figures (1:3 ratio of figures to text) and some features have a figure-to-text ratio as high as 3:2.

What about equations?

The readership is your electron device peers. They understand equations, but many are, perhaps not familiar with your field of endeavor. This leads us to the conclusion that fewer equations are probably better for a magazine article.

Abstract, Footnotes, and References?

Magazine articles do not have an abstract; they are not research papers. However, a separate abstract should be submitted for marketing purposes. Footnotes are not used in the magazine; they tend to distract from the flow of the article. You should find an alternative way to express your comment other than a footnote. References must conform to IEEE format, which can be found in the IEEE Guidelines for Authors.

What is a sidebar?

Sometimes it may be necessary to include a technical description of a measurement, or physical phenomenon. For example, you may include a technical description that provides the details behind the topic under discussion, but to include these details in the main flow of the manuscript would be a digression to the main flow, and may distract or even deter some readers from completing the article. This is a good time to think about putting these details into a "sidebar," for the interested reader to pursue. The sidebar is usually one-half to one full page and has a different background color (provided by the IEEE press). To include a sidebar in your article, you should generally put this section at the end of your manuscript, under the rubric "sidebar."

SUBMISSION FORMAT

IEEE Electron Devices Magazine does not use a submission template. Authors are encouraged to prepare their manuscripts using a single column format with double spacing. This makes reading and commenting easy for the reviewers. Don't spend too much time formatting where the figures should go, as in the magazine, the typesetting is handled by the IEEE publications Editor for best presentation. Best is to provide all figures at the bottom of the document.

Your manuscript can be prepared using Word, RTF, LATEX, Mac Pages, or other common word-processor tools, or in LATEX format. While you may choose to place figures in the text to give the reviewer an idea of what the final article will look like, once your article is accepted for publication we will ask for the original figures in JPEG, TIF, or EPS format, with a resolution of at least 300 dpi for the IEEE Press to typeset the article.

Please include all of the author's affiliations and contact emails in your submission. Also please provide the author ORCID identifier (<https://info.orcid.org/what-is-orcid/>) with your manuscript, if available.

MANUSCRIPT SUBMISSION

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REVIEW

The articles in this magazine are peer-reviewed in accordance with the requirements set forth in the IEEE Publication Services and Products Board Operations Manual (<https://pspb.ieee.org/images/files/files/opsmanual.pdf>). Each published article was reviewed by a minimum of two independent reviewers using a single-blind peer review process, where the identities of the reviewers are not known to the authors, but the reviewers know the identities of the authors. All published articles in the magazine is indexed and available for download in IEEE Xplore

Link to Previous ED-M articles in IEEE Xplore

You may review previous published articles in ED-M:

[Vol. 1, No. 1 \(2023\), Focus Section: 75th Anniversary of the Transistor](#)

[Vol. 1, No. 2 \(2023\), Focus Section: Neuromorphic Devices](#)

[Vol. 1, No. 3 \(2023\): Focus Section: Semiconductor Manufacturing -The Makers](#)