

Preparation of Papers for IEEE Trans on Industrial Electronics

(Apr. 2021)

First A. Author1, *Student Membership*, Second B. Author2, *Membership*,
and Third C. Author3, *Membership*

Abstract—These instructions give you guidelines for preparing papers for IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. Use this document as a template. The electronic file of your paper will be formatted further at IEEE. Paper titles should be written in uppercase and lowercase letters, not all uppercase. Avoid writing long formulas with subscripts in the title; short formulas that identify the elements are fine (e.g., “Nd-Fe-B”). Do not write “(Invited)” in the title. Write full names of authors in the author field. Define all symbols used in the abstract. Do not cite references in the abstract. Do not delete the blank line immediately above the abstract; it sets the footnote at the bottom of this column.

Index Terms—Enter key words or phrases in alphabetical order, separated by commas. For a list of suggested keywords, send a blank e-mail to keywords@ieee.org or visit http://www.ieee.org/documents/taxonomy_v101.pdf.

I. INTRODUCTION

THIS document is a template for authors. If you are reading a paper or PDF version of this document, please download the electronic file, TRANS-JOUR.zip, from the TIE Web site at <http://www.ieee-ies.org/pubs/transactions-on-industrial-electronics> so you can use it to prepare your manuscript.

After unzipping, choose Word or LATEX option. Open ALL_xx-TIE-xxxx.docx for Word or ALL_x-TIE-xxxx.tex for LATEX (highly recommended).

These types of manuscript are accepted in TIE:

- 1) Regular Papers and Special Section papers - Four to eight pages, including authors’ bios and photos.
- 2) Letters - One to three pages. Authors’ bios and photos must not be included.

Manuscript received Month xx, 2xxx; revised Month xx, xxxx; accepted Month x, xxxx. This work was supported in part by the xxx Department of xxx under Grant (sponsor and financial support acknowledgment goes here).

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II. SUBMISSION OF A NEW MANUSCRIPT FOR REVIEW

Contributions to the Transactions, Journals, and Letters must be submitted electronically on IEEE’s on-line manuscript submission and peer-review system, ScholarOne® Manuscripts (former Manuscript Central).

Before submitting, carefully read the TIE checklist above “TIE checklist for new manuscript submissions” and modify your manuscript accordingly. Once your paper completely satisfies the TIE rules, follow this procedure:

- 1) Open ScholarOne® Manuscripts web <http://mc.manuscriptcentral.com/tie-ieee>. If you do not have an existing account, please create it. All IEEE journals require an Open Researcher and Contributor ID (ORCID) for all authors. ORCIDs enable accurate attribution and improved discoverability of an author’s published work. The author will need a registered ORCID in order to submit a manuscript or review a proof in this journal.
- 2) Go to your Author Center and click “Submit First Draft of a New Manuscript”.
- 3) Along with other information, you will be asked to select the subject from a pull-down list. There are various steps in the submission process; you must complete all steps for a complete submission. At the end of each step you must click “Save and Continue”.
- 4) Just uploading the paper is not sufficient. After the last step, you should see a confirmation that the submission is complete. You should also receive an e-mail confirmation.
- 5) More detailed instructions can be found at <http://mchelp.manuscriptcentral.com/gethelpnow/training/author/>.

Please notice that in your Author Center you may check the current status of your manuscript such as: In EIC office, Assigned to AE, AE invites reviewers, AE assigns reviewers, Under review, Awaiting AE decision, and Awaiting EIC decision. If you find that your manuscript is not moving in the process for a month or more please contact the Editor-in-Chief.

A. TIE checklist for manuscript submissions

Authors should consider the following points before submitting a new paper. Otherwise the submission will be automatically rejected.

- 1) New manuscripts cannot exceed **8 pages** (3 for letters). Only a very limited overlength (1/2 page at most) is tolerated. Note that usually in the review process the

- reviewers tend to ask for more explanations, also note that the maximum allowed length is 8 pages on initial/first submission, including authors' bios and photos.
- 2) In order to follow the **single-blind** review process, we ask that all the authors be identifiable within the manuscript (DO include authors' names, their biographies, affiliation, etc.). The articles in this journal 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. Articles will be screened for plagiarism before acceptance.
 - 3) If a significant portion of your manuscript was already published at a conference you must use our "**Post Conference Papers**" template. The manuscript must include the previous work in the references section.
 - 4) TIE policy **doesn't consider surveys**, state of the art papers or project reports. Only Guest Editors of a special section (or submissions allowed by the Editorial Board) are invited to submit such kind of manuscript. Our typical papers propose new methods and demonstrate their effectiveness through experimental results in combination with simulation results.
 - 5) Multiple-part papers are subject to an "Immediate reject" decision unless the authors ask for a consent from the EiC prior to the submission.
 - 6) The only file which has to be submitted (uploaded) is the **manuscript in PDF format** (Word files are also possible but please be sure that the file was properly converted by the submission system). In order to make it portable you must embed the non-standard fonts or avoid them in the PDF file. This is not an easy process, but often all problems are solved when you are printing PDF file from Word and you will select in printer properties "Press Quality" instead of "Standard".
 - 7) Manuscripts must be in IEEE **double column format** and follow all other IEEE guidelines described in this document, so the length of the paper and readability of figures can be evaluated.
 - 8) The file maximum size **cannot exceed 40MB** to make it accessible to our tools. Usually you will get that by adjusting the size of the figures. Note that "EPS" figures format is required only on the Final Stage.
 - 9) IEEE T IE is an application oriented engineering journal. It is therefore expected that all submissions will **contain experimental verification** of the novel theoretical concepts, given in the paper. Papers not containing experimental results should therefore not be submitted since they will be subject to an "Immediate reject" decision. An experimental rig, which must be used by the authors for verification, must contain hardware components other than a PC/laptop.
 - 10) It is a mandatory requirement that the primary e-mail address of all authors is an **institutional e-mail**. This applies to all authors of each new and revised paper. Papers where this is not satisfied will not enter the review process.
 - 11) Your manuscript must be **within the scope of IEEE Trans. on Industrial Electronics**. If not, we will not be able to provide adequate review.
 - 12) **All cited papers must be referenced** within the text of the manuscript. Be sure that the manuscript is up to date. It is expected that a significant portion of references are to recently published papers.
 - 13) Your manuscript must have **abstract correctly written**. In the age of electronic publications it is not easy to be noticed (Industrial Electronics Society alone receives over 15,000 conference and journal papers per year). Authors have to do everything possible so the paper will be noticed and read. Therefore, very careful wording should be used in the title, abstract and index terms. Without those a great paper might never be found and read from IEEE Xplore.
 - 14) Your paper should describe very clearly your accomplishments so other people can understand what your **original contribution** is and use it. Notice that usually your technical accomplishments will be evaluated based on the number of citations but not based on the number of papers published.
 - 15) **Write clearly your manuscript**. Try to keep your manuscript on the proper level from one section to another. It should be easy to understand by well-qualified professionals, but at the same time please avoid describing well-known facts (use proper references instead). Often manuscripts receive negative reviews because reviewers are not able to understand the manuscript and this is authors' (not reviewers') fault. Notice, that if reviewers have difficulties, then other readers will face the same problem and there is no reason to publish the manuscript.

III. SUBMISSION OF A REVISED MANUSCRIPT FOR REVIEW

If an editor decides not to accept your manuscript, they may provide you with a decision that allows for reconsideration. If so, open ScholarOne® Manuscripts web <http://mc.manuscriptcentral.com/tie-ieee> and find the paper on your submission dashboard. The "Actions" column provides you with links to create a revision (for decision types of Minor Revision or Major Revision) or a resubmission (for decision type of Reject with Resubmit).

The checklist above "TIE checklist for manuscript submissions" also applies to the revised stage.

In the revision flow, the reviewers tend to ask for more explanations, also note that the maximum allowed length is 8 pages and exceptionally up to 10 pages may be authorized (paying an overlength fee). Note that the page count includes the authors' bios and photos

In the resubmission flow, please include a cover letter that mentions this paper number and describes the major changes to the manuscript. In particular, please summarize the new results that have been added. This should be accompanied by a point by point explanation of 1) how the previous comments from the reviewers were addressed and 2) how new results added to the paper make it stronger and increase the research

contribution. The response to reviewers should be uploaded as a “supplementary file,” in addition to being uploaded as a cover letter so that all reviewers will have access to the file. Lastly, please make sure to highlight the changes in the paper (or at least use a different font color). If the changes are too much, highlight the major additions to the paper. Please do not submit a paper with track changes, as track changes make the paper difficult for reviewers to read.

IV. SUBMISSION OF A FINAL MANUSCRIPT

If an editor decides to accept your manuscript, you will receive via email an “acceptance” decision. In ScholarOne® Manuscripts, the status of your paper will be “Awaiting Final Files” and you will be able to submit the final manuscript.

The checklist above “TIE checklist for manuscript submissions” also applies to the final stage, with some exceptions:

- 1) Author names list, footnote on the first page, optional acknowledgement section and authors’ bios and photos must be included from the first submission. Letters to editor should not include authors’ bios and photos.
- 2) Please tailor your paper so its length does not exceed the 8 pages limit (up to 10 pages with fees) and the last page is not half empty. Note that the page count includes footnotes, acknowledgement, author photos and bios. If your paper after editing at IEEE HQ will run to a new page the editor may remove your photos and/or bios.
- 3) Please notice that there are mandatory overlength charges of \$250 per page (\$200 for IES members), up to 10 pages.
- 4) This submission must include the final list of references. Any later change will cause prolonged delays in the publishing process.

Upon acceptance, you will receive an email with specific instructions regarding the submission of your final files. To avoid any delays in publication, please be sure to follow these instructions. Final submissions should include source files of your accepted manuscript, high quality graphic files, and a formatted PDF file. If you have any questions regarding the final submission process, please contact the administrative contact for the journal.

A. Final files:

- 1) A source file of your manuscript in either Microsoft Word or LaTeX. Save the document as TXT_xx-TIE-xxxx.doc (Word file) or TXT_xx-TIE-xxxx.tex (LaTeX project).
- 2) A publication-ready PDF of the manuscript which will appear as Early Access article on IEEE Xplore. The publication-ready PDF must match the source file. This PDF file must be made following all IEEE and TIE guide styles. When printing to PDF from Word in printer properties, select “Press Quality” instead of “Standard” so the file meets IEEE Xplore requirements. Name this file as ALL_xx-TIE-xxxx.pdf.
- 3) If applicable, all supplemental material such as multimedia or graphical abstract.
- 4) If the figures are not embedded into the text, then save all your figures in one or several documents. FIG1_xx-TIE-xxxx.ext. Proper extensions are PS, EPS, TIFF, Microsoft

Word, Microsoft PowerPoint, Microsoft Excel, or PDF. If the author photos are not embedded in the text, and only for regular papers (4 to 8 pages, up to 10 with fees), then include color photos of each author with proper format (TIF, JPEG, EPS, PDF, DOC, or PPT) and proper resolution (300 dpi). Name each photo as AUTHOR_NAME.ext. Letters (up to 3 printed pages) must not have biographies or photos of authors.

Pack everything to one zip file xx-TIE-xxxx.zip and upload into ScholarOne® Manuscripts.

Once authors upload final files in ScholarOne® Manuscripts, they will be automatically redirected to a new IEEE page where they can sign the eCF.

As a summary, the zip file should include the following files:

- 1) TXT_xx-TIE-xxxx.doc or TXT_xx-TIE-xxxx.tex - **Source file** of your manuscript.
- 2) ALL_xx-TIE-xxxx.pdf - A **publication-ready PDF** of the manuscript which will appear as Early Access article on IEEE Xplore. The publication-ready PDF must match the source file.
- 3) If applicable, all **supplemental material** such as multimedia or graphical abstract.
- 4) **Figures** [FIG1_xx-TIE-xxxx.ext] in the acceptable format (if they are not embedded into the text). **Author photos** [AUTHOR_NAME.ext], only for Regular Papers (if they are not embedded into the text).

The zip file xx-TIE-xxxx.zip should be uploaded into ScholarOne® Manuscripts.

You are strongly encouraged to use TeX, LaTeX or Troff programs for the most accurate and efficient transfer of your manuscript, especially for those containing extensive mathematics.

V. GUIDELINES FOR MANUSCRIPT PREPARATION

A general IEEE style guide is available at <https://ieeauthorcenter.ieee.org/>.

A. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even after they have already been defined in the abstract. Abbreviations such as IEEE, SI, ac, and dc do not have to be defined. Abbreviations that incorporate periods should not have spaces: write “C.N.R.S.,” not “C. N. R. S.” Do not use abbreviations in the title unless they are unavoidable (for example, “IEEE” in the title of this article).

B. Other Recommendations

Use one space after periods and colons. Hyphenate complex modifiers: “zero-field-cooled magnetization.” Avoid dangling participles, such as, “Using (1), the potential was calculated.” [It is not clear who or what used (1).] Write instead, “The potential was calculated by using (1),” or “Using (1), we calculated the potential.”

Use a zero before decimal points: “0.25,” not “.25.” Use “cm3,” not “cc.” Indicate sample dimensions as “0.1 cm x 0.2

cm,” not “0.1 x 0.2 cm2.” The abbreviation for “seconds” is “s,” not “sec.” Use “Wb/m2” or “webers per square meter,” not “webers/m2.” When expressing a range of values, write “7 to 9” or “7-9,” not “7 9.”

VI. MATHS

If you are using Word, use either the Microsoft Equation Editor or the MathType add-on (<http://www.mathtype.com>) for equations in your paper (Insert — Object — Create New — Microsoft Equation or MathType Equation). “Float over text” should not be selected.

A. Equations

Number equations consecutively with equation numbers in parentheses flush with the right margin, as in (1). First use the equation editor to create the equation. Then select the “Equation” markup style. Press the tab key and write the equation number in parentheses. To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Use parentheses to avoid ambiguities in denominators. Punctuate equations when they are part of a sentence, as in

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2\mu_0)] \int_0^\infty \exp(-\lambda|z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i) d\lambda. \quad (1)$$

Be sure that the symbols in your equation have been defined before the equation appears or immediately following. Italicize symbols (T might refer to temperature, but T is the unit tesla). Refer to “(1),” not “Eq. (1)” or “equation (1),” except at the beginning of a sentence: “Equation (1) is ...” .

VII. UNITS

Use either SI (MKS) or CGS as primary units. (SI units are strongly encouraged.) English units may be used as secondary units (in parentheses). This applies to papers in data storage. For example, write “15 Gb/cm2 (100 Gb/in2).” An exception is when English units are used as identifiers in trade, such as “3½-in disk drive.” Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity in an equation.

The SI unit for magnetic field strength H is A/m. However, if you wish to use units of T, either refer to magnetic flux density B or magnetic field strength symbolized as $\mu_0 H$. Use the center dot to separate compound units, e.g., “A·m2.”

VIII. GUIDELINES FOR GRAPHICS PREPARATION AND SUBMISSION

A. Types of Graphics

The following list outlines the different types of graphics published in IEEE journals. They are categorized based on their construction, and use of color / shades of gray.

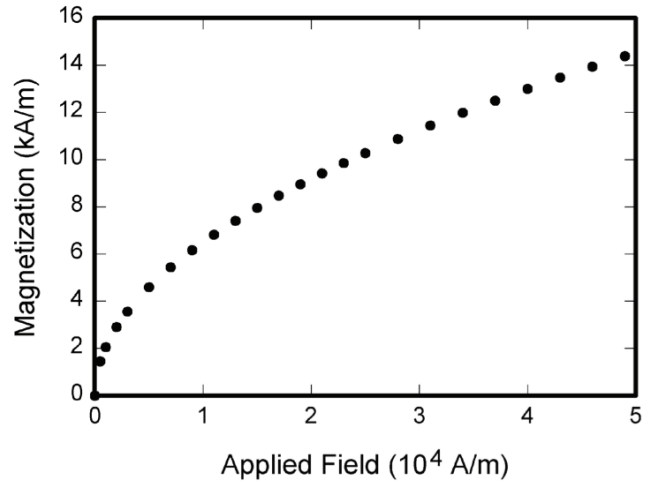


Fig. 1. Magnetization as a function of applied field. Note that “Fig.” is abbreviated. There is a period after the figure number, followed by two spaces. It is good practice to explain the significance of the figure in the caption.

Such figures may include photographs, illustrations, multi-color graphs, and flowcharts.

Figures that are composed of only black lines and shapes. These figures should have no shades or half-tones of gray. Only black and white.

Head and shoulders shots of authors which appear at the end of our papers. Data charts which are typically black and white, but sometimes include color.

B. Multipart figures

Figures compiled of more than one sub-figure presented side-by-side, or stacked. If a multipart figure is made up of multiple figure types (one part is linear, and another is grayscale or color) the figure should meet the stricter guidelines.

C. File Formats For Graphics

Format and save your graphics using a suitable graphics processing program that will allow you to create the images as PostScript (PS), Encapsulated PostScript (.EPS), Tagged Image File Format (.TIFF), Portable Document Format (.PDF), or Portable Network Graphics (.PNG) sizes them, and adjusts the resolution settings. If you created your source files in one of the following programs you will be able to submit the graphics without converting to a PS, EPS, TIFF, PDF, or PNG file: Microsoft Word, Microsoft PowerPoint, or Microsoft Excel. Though it is not required, it is recommended that these files be saved in PDF format rather than DOC, XLS, or PPT. Doing so will protect your figures from common font and arrow stroke issues that occur when working on the files across multiple platforms. When submitting your final paper, your graphics should all be submitted individually in one of these formats along with the manuscript.

TABLE I
UNITS FOR MAGNETIC PROPERTIES

Symbol	Quantity	Conversion from Gaussian and CGS EMU to SI ^a
Φ	magnetic flux	$1Mx \rightarrow 10^8Wb = 10^8V \cdot s$
B	magnetic flux density, magnetic induction	$1G \rightarrow 10^4T = 10^4Wb/m^2$
H	magnetic field strength	$1Oe \rightarrow 10^3/(4\pi)A/m$
m	magnetic moment	$1erg/G = 1emu$ $\rightarrow 10^3A \cdot m^2 = 10^3J/T$
M	magnetization	$1erg/(G \cdot cm^3) = 1emu/cm^3$ $\rightarrow 10^3A/m$
$4\pi M$	magnetization	$1G \rightarrow 10^3/(4\pi)A/m$
σ	specific magnetization	$1erg/(G \cdot g) = 1emu/g \rightarrow 1A \cdot m^2/kg$
j	magnetic dipole moment	$1erg/G = 1emu$ $\rightarrow 4\pi \times 10^{10}Wb \cdot m$
J	magnetic polarization	$1erg/(G \cdot cm^3) = 1emu/cm^3$ $\rightarrow 4\pi \times 10^4T$
$\chi \kappa$	susceptibility	$1 \rightarrow 4\pi$
χ	mass susceptibility	$1cm^3/g \rightarrow 4\pi \times 10^3m^3/kg$
μ	permeability	$1 \rightarrow 4\pi \times 10^7H/m$ $= 4\pi \times 10^7Wb/(A \cdot m)$
μ_r	relative permeability	$\mu \rightarrow \mu_r$
ω, W	energy density	$1erg/cm^3 \rightarrow 10^1J/m^3$
N, D	demagnetizing factor	$1 \rightarrow 1/(4\pi)$

D. Sizing of Graphics

Most charts, graphs, and tables are one column wide (3.5 inches / 88 millimeters / 21 picas) or page wide (7.16 inches / 181 millimeters / 43 picas). The maximum depth a graphic can be is 8.5 inches (216 millimeters / 54 picas). When choosing the depth of a graphic, please allow space for a caption. Figures can be sized between column and page widths if the author chooses, however it is recommended that figures are not sized less than column width unless when necessary.

There is currently one publication with column measurements that don't coincide with those listed above. PROCEEDINGS OF THE IEEE has a column measurement of 3.25 inches (82.5 millimeters / 19.5 picas).

The final printed size of author photographs is exactly 1 inch wide by 1.25 inches tall (25.4 millimeters x 31.75 millimeters / 6 picas x 7.5 picas). Author photos printed in editorials measure 1.59 inches wide by 2 inches tall (40 millimeters x 50 millimeters / 9.5 picas x 12 picas).

E. Resolution

The proper resolution of your figures will depend on the type of figure it is as defined in the "Types of Figures" section. Author photographs, color, and grayscale figures should be at least 300dpi. Lineart, including tables should be a minimum of 600dpi.

F. Vector Art

While IEEE does accept, and even recommends that authors submit artwork in vector format, it is our policy is to rasterize all figures for publication. This is done in order to preserve the figures' integrity across multiple computer platforms.

G. Color Space

The term color space refers to the entire sum of colors that can be represented within the said medium. For our

purposes, the three main color spaces are Grayscale, RGB (red/green/blue) and CMYK (cyan/magenta/yellow/black). RGB is generally used with on-screen graphics, whereas CMYK is used for printing purposes.

All color figures should be generated in RGB or CMYK color space. Grayscale images should be submitted in Grayscale color space. Line art may be provided in grayscale OR bitmap colorspace. Note that "bitmap colorspace" and "bitmap file format" are not the same thing. When bitmap color space is selected, .TIF/.TIFF is the recommended file format.

H. Accepted Fonts Within Figures

When preparing your graphics IEEE suggests that you use one of the following Open Type fonts: Times New Roman, Helvetica, Arial, Cambria, and Symbol. If you are supplying EPS, PS, or PDF files all fonts must be embedded. Some fonts may only be native to your operating system; without the fonts embedded, parts of the graphic may be distorted or missing.

A safe option when finalizing your figures is to strip out the fonts before you save the files, creating "outline" type. This converts fonts to artwork what will appear uniformly on any screen.

I. Using Labels Within Figures

1) Figure Axis labels

Figure axis labels are often a source of confusion. Use words rather than symbols. As an example, write the label "Magnetization," or "Magnetization M," not just "M." Put units in parentheses. Do not label axes only with units. As in Fig. 1, for example, write "Magnetization (A/m)" or "Magnetization (A m1)," not just "A/m." Do not label axes with a ratio of quantities and units. For example, write "Temperature (K)," not "Temperature/K.". Multipliers can be especially confusing. Write "Magnetization (kA/m)" or "Magnetization (103 A/m)." Do not write "Magnetization (A/m) x 1000" because the reader would not know whether the top axis label in Fig. 1 meant 16000 A/m or 0.016 A/m. Figure labels should be legible, approximately 8 to 10 point type.

2) Subfigure Labels in Multipart Figures and Tables

Multipart figures should be combined and labeled before final submission. Labels should appear centered below each subfigure in 8 point Times New Roman font in the format of (a) (b) (c).

J. Referencing a Figure or Table Within Your Paper

When referencing your figures and tables within your paper, use the abbreviation "Fig." even at the beginning of a sentence. Do not abbreviate "Table." Tables should be numbered with Roman Numerals.

K. Checking Your Figures: The IEEE Graphics Checker

The IEEE Graphics Checker Tool enables authors to pre-screen their graphics for compliance with IEEE Transactions and Journals standards before submission. The online tool,

located at <http://graphicsqc.ieee.org/>, allows authors to upload their graphics in order to check that each file is the correct file format, resolution, size and colorspace; that no fonts are missing or corrupt; that figures are not compiled in layers or have transparency, and that they are named according to the IEEE Transactions and Journals naming convention. At the end of this automated process, authors are provided with a detailed report on each graphic within the web applet, as well as by email.

For more information on using the Graphics Checker Tool or any other graphics related topic, contact the IEEE Graphics Help Desk by e-mail at graphics@ieee.org.

L. Submitting Your Graphics

Because IEEE will do the final formatting of your paper, you do not need to position figures and tables at the top and bottom of each column. In fact, all figures, figure captions, and tables can be placed at the end of your paper. In addition to, or even in lieu of submitting figures within your final manuscript, figures should be submitted individually, separate from the manuscript in one of the file formats listed above in section VI-J. Place figure captions below the figures; place table titles above the tables. Please do not include captions as part of the figures, or put them in “text boxes” linked to the figures. Also, do not place borders around the outside of your figures.

M. Color Processing / Printing in IEEE Journals

All IEEE Transactions, Journals, and Letters allow an author to publish color figures on IEEE Xplore® at no charge, and automatically convert them to grayscale for print versions. In most journals, figures and tables may alternatively be printed in color if an author chooses to do so. Please note that this service comes at an extra expense to the author. If you intend to have print color graphics, include a note with your final paper indicating which figures or tables you would like to be handled that way, and stating that you are willing to pay the additional fee.

IX. CONCLUSION

A conclusion section is not required. Although a conclusion may review the main points of the paper, do not replicate the abstract as the conclusion. A conclusion might elaborate on the importance of the work or suggest applications and extensions.

APPENDIX

Appendixes, if needed, appear before the acknowledgment.

ACKNOWLEDGMENT

The preferred spelling of the word “acknowledgment” in American English is without an “e” after the “g.” Use the singular heading even if you have many acknowledgments. Avoid expressions such as “One of us (S.B.A.) would like to thank” Instead, write “F. A. Author thanks” In most cases, sponsor and financial support acknowledgments are placed in the unnumbered footnote on the first page, not here.

REFERENCES AND FOOTNOTES

A. References

References need to be cited in text. Put the number on the line, in square brackets inside the punctuation. Multiple references are each numbered with separate brackets. When citing a section in a book, please give the relevant page numbers. In text, refer simply to the reference number. Do not use “Ref.” or “reference” except at the beginning of a sentence: “Reference [#] shows” Please do not use automatic endnotes in Word, rather, type the reference list at the end of the paper using the “References” style.

Reference numbers are set flush left and form a column of their own, hanging out beyond the body of the reference. The reference numbers are on the line, enclosed in square brackets. In all references, the given name of the author or editor is abbreviated to the initial only and precedes the last name. Use them all; use et al. exceptionally if more than 6 author names were listed. Use commas around Jr., Sr., and III in names. Abbreviate conference titles [1]. When citing journals [2]–[11], provide the issue number, page range, volume number, DOI, year, and/or month if available. When referencing a patent [12], provide the day and the month of issue, or application. References may not include all information; please obtain and include relevant information. Do not combine references. There must be only one reference with each number. If there is a URL included with the print reference, it can be included at the end of the reference [13].

Authors are encouraged to include the DOI number for each reference. It’s the most important part of the reference. The DOI is like a digital fingerprint and it’s used to identify the article without mistakes.

Other than books [14]–[17], capitalize only the first word in a paper title, except for proper nouns and element symbols. For papers published in translation journals, please give the English citation first, followed by the original foreign-language citation. See the end of this document for formats and examples of common references. For a complete discussion of references and their formats, see “The IEEE Style Manual,” available as a PDF link off the Author Digital Toolbox main page.

B. Footnotes

Number footnotes separately in superscripts (Insert — Footnote).¹ Place the actual footnote at the bottom of the column in which it is cited; do not put footnotes in the reference list (endnotes). Use letters for table footnotes (see Table I).

X. EDITORIAL POLICY

Do not submit a reworked version of a paper you have submitted or published elsewhere. Do not publish “preliminary” data or results. The submitting author is responsible for obtaining agreement of all coauthors and any consent required from sponsors before submitting a paper.

¹It is recommended that footnotes be avoided (except for the unnumbered footnote with the receipt date on the first page). Instead, try to integrate the footnote information into the text.

The IEEE Transactions and Journals Department does not publish conference records or proceedings. The department does publish papers related to conferences that have been recommended for publication on the basis of peer review. As a matter of convenience and service to the technical community, these topical papers are typically collected and published in one special issue of most transactions publications.

At least two reviews are required for every paper submitted. Indecipherable English is a valid reason for rejection. There is a service available that will help you improve your English for a fee, and the link to that service can be found at <https://ieeauthorcenter.ieee.org/>.

Authors of rejected papers may revise and resubmit them as regular papers, whereupon they will be reviewed by two new referees.

XI. PUBLICATION PRINCIPLES

The two types of contents of that are published are; 1) peer-reviewed and 2) archival. The Transactions and Journals Department publishes scholarly articles of archival value as well as tutorial expositions and critical reviews of classical subjects and topics of current interest. Authors should consider the following points:

- 1) Technical papers submitted for publication must advance the state of knowledge and must cite relevant prior work.
- 2) The length of a submitted paper should be commensurate with the importance, or appropriate to the complexity, of the work. For example, an obvious extension of previously published work might not be appropriate for publication or might be adequately treated in just a few pages.
- 3) Authors must convince both peer reviewers and the editors of the scientific and technical merit of a paper; the standards of proof are higher when extraordinary or unexpected results are reported.
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