Preparation of Papers in Two-Column Format for Conference Proceedings Sponsored by IEEE

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Abstract-These instructions give you basic guidelines for preparing papers for conference proceedings.

I. Introduction

Your goal is to simulate the usual appearance of papers in an IEEE conference proceedings. For items not addressed in

these instructions, please refer to the last issue of your

Preparing your Electronic Paper

Prepare your paper in full-size format, on US letter paper (8

conference's proceedings or your Publications chair.

½ by 11 inches). For A4 paper, use the A4 settings.

Type Sizes and Typefaces: Follow the type sizes specified in Table I. As an aid in gauging type size, 1 point is about 0.35 mm. The size of the lowercase letter "j" will give the point

size. Times New Roman is the preferred font.

1) US Letter Margins: top = 0.75 inches, bottom = 1 inch, side = 0.625 inches. Each column measures 3.5 inches wide, with a 0.25-inch measurement between columns.

2) A4 Margins: top = 19mm, bottom = 43mm, side = 13 mm. The A4 column width is 88mm (3.45 in). The space between the two columns is 4mm (0.17 in). Paragraph indentation is 3.5 mm (0.14 in). Left- and right-justify your columns. Use tables and figures

to adjust column length. On the last page of your paper, adjust the lengths of the columns so that they are equal. Use automatic hyphenation and check spelling. Digitize or paste down figures.

TABLE I Type Sizes for Papers

| Type | Appearance | | |
|----------------|---|----------|------------|
| size (pts.) | Regular | Bold | Italic |
| 6 | Table captions, a table superscripts | | |
| 8 | Section titles, a references, tables, table names, first letters in table captions, a figure captions, footnotes, text subscripts, and superscripts | | |
| 9 | | Abstract | |
| 10 | Authors' affiliations, main text, equations, first letters in section titles ^a | | Subheading |
| 11 | Authors' names | | |
| 24 | Paper title | | |
| · | ^a Uppercase | • | • |

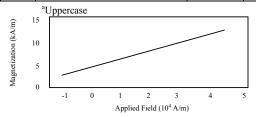


Fig. 1. Magnetization as a function of applied field. Note how the caption is centered in the column.

II HELPFUL HINTS

A. Figures and Tables

Position figures and tables at the tops and bottoms of columns. Avoid placing them in the middle of columns.

Large figures and tables may span across both columns. Figure captions should be centered below the figures; table

captions should be centered above. Avoid placing figures and

tables before their first mention in the text. Use the abbreviation "Fig. 1," even at the beginning of a sentence.

Figure axis labels are often a source of confusion. Use words rather than symbols. For example, write "Magnetization," or "Magnetization (M)" not just "M." Put

units in parentheses. Do not label axes only with units. In the example, write "Magnetization (A/m)" or "Magnetization (A · m¹)." Do not label axes with a ratio of quantities and units. For example, write "Temperature (K)," not "Temperature/K."

Multipliers can be especially confusing. "Magnetization (kA/m)" or "Magnetization (10³ A/m)." Figure labels should be legible, about 10-point type.

B. References

Number citations consecutively in square brackets [1]. Punctuation follows the bracket [2]. Refer simply to the

Number footnotes sepately in superstipts. Place Ite actual footnote at the bottom of the column in which it was cited. Do not put footnotes in the reference list. Use letters for table botnotes (see Tale I). IEEE Transactions olonger use ajournal prefix before the volume number. For example, use 'IEEE Trans. Magn, vol. 25," not "vol. MAG-25.

referencenumber, as in[3]. Use "Ref. [3]" or Reference [3]" at the beginning of a sentence: "Reference [3] was he first ..."

Give all authors' names; use "et al." if there are six authors or more. Papers that have not been published, even if they have been submitted for publication, should be cited as "unpublished" [4]. Papers that have been accepted for publication should be cited as "in press" [5]. In a paper title,

capitalize the first word and all other words except for conjunctions, prepositions less than seven letters, and prepositional phrases.

For papers published in translated journals, first give the English citation, then the original foreign-language citation [6]. C. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even if they have been defined in the abstract.

Abbreviations such as IEEE, SI, MKS, CGS, ac, dc, and rms do not have to be defined. Do not use abbreviations in the title unless they are unavoidable.

D. Equations Number equations consecutively with equation numbers in

sentence, as in

the exp function, or appropriate exponents. Italicize Roman symbols for quantities and variables, but not Greek symbols. Use an en dash (–) rather than a hyphen for a minus sign. Use parentheses to avoid ambiguities in denominators. Punctuate

equations with commas or periods when they are part of a

parentheses flush with the right margin, as in (1). To make your equations more compact, you may use the solidus (/),

$$a+b=c. (1)$$

equation appears or immediately following. Use "(1)," not "Eq. (1)" or "equation (1)," except at the beginning of a sentence: "Equation (1) is ..."

Symbols in your equation should be defined before the

E. Other Recommendations

calculated the potential."

The Roman numerals used to number the section headings are optional. If you do use them, do not number

ACKNOWLEDGMENT and REFERENCES, and begin Subheadings with letters. Use two spaces after periods (full stops). Hyphenate complex modifiers: "zero-field-cooled magnetization." Avoid dangling participles, such as, "Using (1), the potential was calculated." Write instead, "The

potential was calculated using (1)," or "Using (1), we

meter," not "webers/m²." Spell units when they appear in text: "...a few henries," not "...a few H." If your native language is not English, try to get a native English-speaking colleague to proofread your paper. Do not add page numbers.

III UNITS

Use a zero before decimal points: "0.25," not ".25." Use "cm³," not "cc." Do not mix complete spellings and abbreviations of units: "Wb/m²" or "webers per square

Use either SI (MKS) or CGS as primary units. (SI units are

encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as "3.5-inch 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 that you use in an equation.

IV. SOME COMMON MISTAKES

The word "data" is plural, not singular. The subscript for the permeability of vacuum₀ is zero, not a lowercase letter "o." In American English, periods and commas are within

quotation marks, like "this period." A parenthetical statement at the end of a sentence is punctuated outside of the closing parenthesis (like this). (A parenthetical *sentence* is punctuated

within the parentheses.) A graph within a graph is an "inset,"

meanings of the homophones "affect" and "effect," "complement" and "compliment," "discreet" and "discrete," "principal" and "principle." Do not confuse "imply" and "infer." The prefix "non" is not a word; it should be joined to the word it modifies, usually without a hyphen. There is no

period after the "et" in the Latin abbreviation "et al." The abbreviation "i.e." means "that is," and the abbreviation "e.g." means "for example." An excellent style manual for science

ACKNOWLEDGMENT The preferred spelling of the word "acknowledgment" in America is without an "e" after the "g." Try to avoid the

not an "insert." The word alternatively is preferred to the word "alternately" (unless you mean something that alternates). Do not use the word "essentially" to mean "approximately" or "effectively." Be aware of the different

stilted expression, "One of us (R. B. G.) thanks ..." Instead, try "R.B.G. thanks ..." Put sponsor acknowledgments in the

writers is [7].

unnumbered footnote on the first page. REFERENCES

[1] G. Eason, B. Noble, and I.N. Sneddon, "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," *Phil.*

Trans. Rov. Soc. London, vol. A247, pp. 529-551, April 1955. J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. [2]

2. Oxford: Clarendon, 1892, pp.68-73.

I.S. Jacobs and C.P. Bean, "Fine particles, thin films and exchange [3] anisotropy," in Magnetism, vol. III, G.T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271-350.

Stand. Abbrev., in press.
Y. Yorozu, M. Hirano, K. Oka, and Y. Tagawa, "Electron spectroscopy studies on magneto-optical media and plastic substrate interface," *IEEE*

R. Nicole, "Title of paper with only first word capitalized," J. Name

K. Elissa, "Title of paper if known," unpublished.

[4]

[5]

[6]

- Transl. J. Magn. Japan, vol. 2, pp. 740-741, August 1987 [Digests 9th Annual Conf. Magnetics Japan, p. 301, 1982].
 [7] M. Young, The Technical Writer's Handbook. Mill Valley, CA:
 - M. Young, *The Technical Writer's Handbook*. Mill Valley, CA University Science, 1989.