

Preparation of Extended Abstracts in Two-Column Format for the Proceedings of the 2005 Fully 3D Image Reconstruction Meeting

Size 20, not bold

Fred Noo, Hiroyuki Kudo, and Larry Zeng

size 12

Underline the presenter

size 9, bold

Abstract — These instructions give you basic guidelines for preparing print-ready extended abstracts for the Fully 3D Meeting Proceedings. Please use bold face and size 9 for this paragraph. Notice that “Abstract” is italic.

adjust the lengths of the two columns so that they are the same. Use automatic hyphenation and check spelling.

SIZE 8, ALL CAP.

TABLE I

TYPE SIZES FOR CAMERA-READY PAPERS

size (pts)	Regular	Bold	Italic
8	Authors' affiliations, address, telephone number, e-mail, references, tables, table names, ^a table captions, ^a figure captions, and footnotes		
9	Table text	Abstract	
10	Main text, equations, section titles ^a		Subheading
12	Authors' names		
20	Paper title		

^aUpper case

size 9

size 10

INTRODUCTION

size 10, all cap.

Your goal is to simulate, as closely as possible, the usual appearance of typeset papers in the *IEEE Transactions*, so that the extended abstracts in this book have similar formats. We do not strictly enforce the page limit.

If you have desktop publishing facilities, prepare your extended abstract in full-size format, on paper 216 mm by 299 mm (8.5 by 11 in.).

Type sizes and typefaces: The best results will be obtained if your computer word processor has several type sizes. Try to follow the type sizes specified in Table I as best you can. As an aid in gauging type size, 1 point is about 0.35 mm. The size of the lower case letter “j” will give the point size. Use a proportional, serif typeface such as Times or Dutch Roman.

Format: For letter-size paper, set top and bottom margins to 1 inch, left and right margins to 0.7 in. Equivalently, set the top and bottom margins to 35 mm, left and right margins to 15 mm. The column width is 88 mm (3.45 in). The space between the two columns is 5 mm (0.2 in). Paragraph indentation is about 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, try to

Fred Noo is with the Utah Center for Advanced Imaging Research (UCAIR), Department of Radiology, University of Utah, 729 Arapleen Drive, Salt Lake City, UT 84108, USA. Telephone: (801) 581-5347. E-mail: noo@ucair.med.utah.edu

Hiroyuki Kudo is with Image Science Laboratory, Graduate School of Systems and Information Engineering, University of Tsukuba. Telephone: (Country code 81) 029-853-5516. E-mail: kudo@cs.tsukuba.ac.jp

Larry Zeng is with the Utah Center for Advanced Imaging Research (UCAIR), Department of Radiology, University of Utah, 729 Arapleen Drive, Salt Lake City, UT 84108, USA. Telephone: (801) 581-3918. E-mail: larry@ucair.med.utah.edu

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 below the figures; table captions should be above the tables. 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. Try to use words rather than symbols. As an example, write the quantity “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 ($A \cdot m^{-1}$),” not just “A/m.” Do not label axes

Provide Institution, address, phone number and e-mail as footnotes. size 8

Do not put page numbers

1 inch top margin

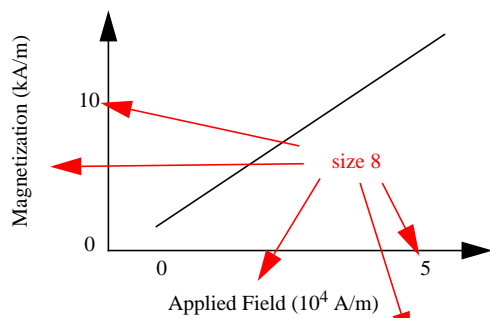


Fig. 1. Magnetization as a function of applied field. Note how the caption is centered in the column.

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 (10^3 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 15 000 A/m or 0.015 A/m. Figure labels should be legible, about 10-point type.

B. References

Number citations consecutively in square brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]. Do not use “Ref. [3]” or reference [3]” except at the beginning of a sentence: “Reference [3] was the first ...”

Number footnotes separately in superscripts. Place the 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 footnotes (see Table I).

Give all authors’ names; do not use “et al.” unless 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]. 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 language citation [6].

C. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc,

and rms do not have to be defined. Do not use abbreviations in the title. Do not use abbreviations in the title unless they are unavoidable (for example, the title of this article).

D. Equations

Number equations consecutively with equation numbers in parentheses flush with the right margin, as in (1). To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Italicize Roman symbols for quantities and variables, but not Greek symbols. Use a long 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 sentence, as in

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

Be sure that the symbols in your equation have been defined before the equation appears or immediately following. Use “(1),” not “Eq. (1)” or “equation (1),” except at the beginning of a sentence: “Equation (1) is ...”

E. Other Recommendations

The Roman numerals used to number the section headings are optional. If you do use them, number INTRODUCTION, but not 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 calculated the potential.”

Use a zero before decimal points: “0.25,” not “.25.” Use “cm³,” not “cc.” Do not mix complete spellings and abbreviations of units: “Wb₂/m²” or “webers per square 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 any kind of pagination anywhere in the paper.

III. UNITS

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

1 inch bottom margin

0.2 inch gap

0.7 inch left margin

0.7 inch right margin

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 vacuum μ_0 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,” not an “insert.” The word *alternatively* is preferred to the word “alternately” (unless you really mean something that alternates). Do not use the word “essentially” to mean “approximately” or “effectively.” Be aware of the different 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 and source of information for science writers is [7].

ACKNOWLEDGMENT

The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g.” Try to avoid the stilted expression, “One of us (R. B. G.) thanks ...” Instead, try “R.B.G. thanks ...” Put sponsor acknowledgments in the 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. Roy. Soc. London*, vol. A247, pp. 529-551, April 1955.
- [2] J. Clerk Maxwell, *A Treatise on Electricity and Magnetism*, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68-73.
- [3] I.S. Jacobs and C.P. Bean, “Fine particles, thin films and exchange anisotropy,” in *Magnetism*, vol. III, G.T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271-350.
- [4] K. Elissa, “Title of paper if known,” unpublished.
- [5] R. Nicole, “Title of paper with only first word capitalized,” *J. Name Stand. Abbrev.*, in press.
- [6] Y. Yorozu, M. Hirano, K. Oka, and Y. Tagawa, “Electron spectroscopy studies on magneto-optical media and plastic substrate interface,” *IEEE Transl. J. Magn. Japan*, vol. 2, pp. 740-741, August 1987 [*Digests 9th Annual Conf. Magnetism Japan*, p. 301, 1982].
- [7] M. Young, *The Technical Writer's Handbook*. Mill Valley, CA: University Science, 1989.

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