

Instruction Details and Useful Hints for COMPUMAG 2011 Two-page Digest Preparation

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Abstract — This instruction sheet provides you with the guidelines for preparing the two-page digest for the 18th International Conference on Computation of Electromagnetic Fields (Compumag 2011), which will be held on 12–15 July 2011 in Sydney, Australia. The general layout for the digest is basically the standard template of the *IEEE Transactions on Magnetics*, except that the digests are limited to two pages. Accepted digests will be included in the book of conference proceedings. Papers presented at the conference will be considered for publication either in the *IEEE Transactions on Magnetics* or the Conference Proceedings which is to be uploaded into the *IEEE Xplore Digital Library* after a second peer-review process. Please carefully follow the instructions contained in this document in order to ensure legibility and uniformity of digests in the conference records.

I. INTRODUCTION

You can use this document as a template for Microsoft Word, version 6.0 or later. If you are reading a paper version, you can download the electronic document from the website of the conference <http://www.compumag2011.com>. If you would prefer to use \LaTeX , download the IEEE's \LaTeX style and sample files from the webpage <http://www.ieee.org/portal/pages/pubs/transactions/stylehets.html> and use this document as an instruction set.

II. CLASSIFICATION

In order to assist the Chairmen of the Editorial Board in allocating papers to the reviewers, the authors are asked to select the most appropriate Topic from the list given on the website of the conference. This will indicate the field of expertise needed by reviewer to correctly review their paper. The selected field of expertise should be indicated in the header of the digest, on the left hand side, along with its reference number in the list, e.g. "15. EDUCATION" for this document.

III. GENERAL LAYOUT OF THE TWO-PAGE DIGEST

Please prepare the camera-ready copy on regular size paper (8.5 in x 11 in = 21.6 cm x 27.9 cm) or A4 paper (21.0 cm x 29.7 cm). The digest should be prepared in double-column format. The total text height should be 9.6 in (24.4 cm). The total width should be 7.2 in (18.3 cm) with a separation of 0.2 in (0.5 cm) between the columns. Please provide a top margin of 0.7 in (1.8 cm) and a left margin of 0.65 in (1.65 cm). Paragraphs follow the indented paragraph format with left and right justification. Use 0.2 in (0.5 cm) for paragraph indentation. Don't leave space between the paragraphs.

Please number section headings with Roman numerals and center them in the column. The spacing before and after the section headings should be 12 pt and 4 pt, respectively. Please number the subheadings with alphabetical letters. The spacing before and after the subheadings is 6 pt and 3 pt, respectively. The indentation for subheadings is 0.1 in (0.25 cm).

IV. TYPE AND SIZE OF FONTS

Please use Times New Roman typeface and follow the type size specified in Table I as closely as possible.

TABLE I
TYPES SIZES FOR CAMERA-READY PAPERS

Item	Type Size (points)	Appearance
Title	14	Bold
Author's Name	12	Regular
Author's Affiliations, mailing address, and E-mail	10	Regular
Abstract	9	Bold
Section Titles	10	Small capitals, centered in column, Roman numerals
Subheadings	10	Italics, alphabetical numerals
Main Text	10	Regular
Subscripts and Superscripts in the Main Text	8	Regular
Equations	10	Regular
Figure Captions	8	Regular, centered in column, Arabic numerals
Table Captions	10	Small capitals, title case, centered in column, Roman numerals
Table Name/Description	8	Small capitals, title case, centered in column, Roman numerals
Table Text	8	Regular
Subscripts and Superscripts in Table Text	6	Regular
References	8	Regular

V. USEFUL HINTS

A. Abbreviations and Acronyms

Define abbreviations and acronyms the first time they are used, even after they have been defined in the abstract. Commonly acceptable abbreviations such as IEEE, SI, MKS, ac, and dc do not have to be defined. Do not use abbreviations in the title unless they are unavoidable.

B. Figures and tables

Place figures and tables in the middle of columns. Figure captions should be centered below the figures; table captions should be centered above the tables. Please use words rather than symbols to label the axes. As an example, write the quantity “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 ($A \cdot m^{-1}$),” 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 confusing. Write “Magnetization (kA/m)” or “Magnetization ($10^3 A/m$),” not “Magnetization ($A/m \times 1000$)” because the readers 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 12 point type when reduced to column width. Note that “Fig.” is abbreviated. There is a period after the figure number, followed by two spaces.

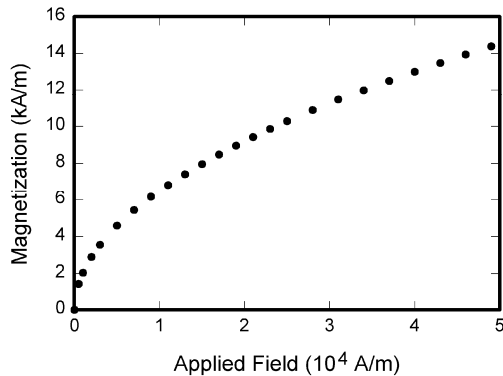


Fig. 1. Magnetization as a function of applied field

C. Equations

Use either the Microsoft Equation Editor or the *MathType* add-on for equations in your digests. 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 equation 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

$$B_x = \frac{\partial A}{\partial y} = \frac{1}{2\Delta_e} (r_1 A_1 + r_2 A_2 + r_3 A_3). \quad (1)$$

Be sure that the symbols in your equation have been defined before the equation appears or immediately following. Refer to “(1),” not “Eq. (1)” or “equation (1)” except at the beginning of a sentence: “Equation (1) is...”. Please confine equations to one column width and break equations at appropriate algebraic symbols.

D. Units

Use either SI (MKS) or CGS as primary units. SI units are strongly recommended. Avoid combining SI and CGS units, such as current in Ampere and magnetic field in Oersted. If you must use mixed units, clearly state the units for each quantity in an equation.

E. Conclusion

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

F. References

Number citations consecutively in square brackets [1]. The sentence punctuation follows the brackets [2]. Multiple references [2], [3] are each numbered with separate brackets [2]-[3]. When citing a section in a book, please give the relevant page numbers [2]. In sentences, refer simply to the reference number, as in [3]. Do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence. Papers that have not been published should be cited as “unpublished” [4]. Papers that have been submitted for publication should be cited as “submitted for publication” [5]. Paper that have been accepted for publication but not yet specified for an issue should be cited as “to be published” [6]. Please give affiliations and address for private communications [7]. Use a space after authors’ initials. Capitalize only the first word in a paper title, except for proper nouns and element symbols.

Adequacy of references is one of many factors to be considered by COMPUMAG paper reviewers. It is strongly suggested that the full paper should contain 10–15 references, and the digest half of that number, with significant proportion of those having appeared in recent years in IEEE Transactions on Magnetics, and that self-citations should be limited as much as reasonable.

G. Language

The use of grammar and spelling checker is strongly recommended. It is also suggested that you have the digest proofread by a native English-speaking colleague if your native language is not English.

VI. REFERENCES

- [1] F. Henrotte and K. Hameyer, “The structure of EM energy flows in continuous media,” *IEEE Trans. on Magn.*, vol.42, no.4, pp. 903-906, 2006.
- [2] J. Clerk Maxwell, *A Treatise on Electricity and Magnetism*, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp. 68-73.
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- [4] B. Smith, “An approach to graphs of linear forms,” unpublished.
- [5] J. Wang, “Fundamentals of erbium-doped fiber amplifiers arrays,” *IEEE J. Quantum Electron.*, submitted for publication.
- [6] E.H. Miller, “A note on reflector arrays,” *IEEE Trans. Antennas Propagat.*, to be published.
- [7] C.J. Kaufman, Rocky Mountain Research Laboratories, Boulder, CO, private communication, 2004.