

Preparation of Papers for Data Science and Applications(DataSCI)

First A. Author^{1,2}, Second B. Author^{1,*}, Third C. Author² ←Abbreviations aren't allowed

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Abstract—These instructions give you guidelines for preparing papers for DATA SCIENCE AND APPLICATIONS. Use this document as a template if you are using Microsoft Word. Otherwise, use this document as an instruction set. Abstract, with a maximum of 1300 characters (with spaces), should be self-explanatory and summarize the essential qualities of the paper. The abstract must clearly state the novelty of the work regarding the journal fields. Do not use other characters, like special symbols, Greek alphabet letters, subscript and superscript styles 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 Do not cite references in the abstract.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—About four key words or phrases in alphabetical order, separated by commas. A list of key words may be found on the web-site http://www.ieee.org/documents/taxonomy_v101.pdf Try to use only the key words defined there.

I. INTRODUCTION

The journal DATA SCIENCE AND APPLICATIONS publishes previously unpublished high scientific level manuscripts imposed not only for specialists but also to the wider public with an interest in data science and applications.

Papers should be written in English and submitted in final camera-ready form. The paper should be prepared using Microsoft Word (*.doc, *.docx) and submitted using our on-line manuscript submission system <http://jdatasci.com/index.php/jdatasci>. All text has to be edited by using the styles defined in this document.

The length of the manuscript should be 4–8 pages. If your paper is longer than 8 pages (9 and more), please contact us before uploading it in the interface. At least 75% of the last page should be occupied by text.

All subsequent versions should be uploaded by using the same paper ID and your defined user name and password. We are unable to process files sent by E-mail.

II. AUTHOR'S GUARANTEE FORM

The author's guarantee form should accompany your submission. You can get the PDF form version on-line.

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All authors have to sign the copyright transfer form. The signed copyright form has to be scanned and uploaded as a supplementary file on the web-site.

III. PAPER AND TEXT FORMAT

This document is a template for Microsoft Word. If you are reading a paper or PDF version of this document, please download the electronic file from the journal Web site <http://jdatasci.com/index.php/jdatasci> so you can use it to prepare your manuscript.

When you open this document, select "Page Layout" from the "View" menu in the menu bar (View | Page Layout), which allows you to see the footnotes. Then type over sections or cut and paste from another document and then use markup styles. The pull-down style menu is at the left of the Formatting Toolbar at the top of your Word window (for example, the style at this point in the document is "Text"). Highlight a section that you want to designate with a certain style, and then select the appropriate name on the style menu. The style will adjust your fonts and line spacing. Do not change the font sizes or line spacing to squeeze more text into a limited number of pages. Use italics for emphasis; do not underline.

To insert images in Word, position the cursor at the insertion point and either use Insert | Picture | From File or copy the image to the Windows clipboard and then Edit | Paste Special | Picture (with "Float over text" unchecked).

Author name, affiliation and complete address are to be placed underneath the title. In case of multiple authorship of a submitted paper, the affiliation and complete address of each author must be specified.

TABLE I. THE RECOMMENDED FONTS.

Item	Font	Size	Style
Title of paper	Times New Roman	24 pt	Normal
Authors' names	Times New Roman	11 pt	Normal
Authors' address	Times New Roman	11 pt	Italic
Abstract	Times New Roman	9 pt	Bold
Title of sections	Times New Roman	10 pt	Normal
Text, Formulae	Times New Roman	10 pt	Normal
Algorithms	Courier New	10 pt	Normal
References	Times New Roman	8 pt	Normal

IV. TABLES, FIGURES

Illustrations should be numbered consecutively in Arabic numerals, while tables in Roman numerals, following the order cited in the text; they may be organized in one or two columns. Tables must be accompanied by a caption placed at the top ("Table Title" style). Figures (abbreviated Fig. X in the caption and Fig. X in the text) must be accompanied by a caption placed underneath ("Figure Caption" style). References made to tables in text will not be abbreviated e.g. "in Table I". If your figure has two parts, include the labels "(a)" and "(b)" as text after the each part.

Figure axis labels are often a source of confusion. 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. Do not label axes with a ratio of quantities and units. For example, write "Temperature (K)," not "Temperature/K." Figure labels should be legible, approximately 8 to 12 point type.

Make sure the axis labels and other items are part of the artwork. Do not use text boxes for labeling the pictures or figure captions.

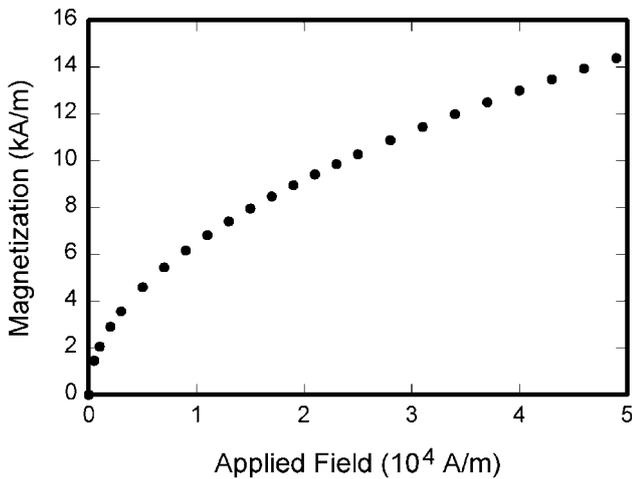


Fig. 1. Magnetization as a function of applied field. Note that "Fig." is abbreviated. There is a period after the figure number, followed by two spaces. It is good practice to explain the significance of the figure in the caption.

Please verify that the figures and tables you mention in the text actually exist.

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Format and save your graphic images using a suitable graphics processing program that will allow you to create the images Encapsulated PostScript (EPS) or Tagged Image File Format (TIFF), sizes them, and adjusts the resolution settings. If you created your source files in one of the following you will be able to submit the graphics without converting to an EPS or TIFF file. Image quality is very important to how yours graphics will reproduce. Even

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If you are preparing images in TIFF or EPS format, note the following. High-contrast line figures should be prepared with 600 dpi resolution and saved with no compression, 1 bit per pixel (monochrome), with file names in the form of "fig3.tif".

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Colour printing of figures is available, but is billed to the authors. Include a note with your final paper indicating that you request and will pay for colour printing. Do not use colour unless it is necessary for the proper interpretation of your figures. Please note that the journal publishes colour figures in on-line version and black and white figures in print.

The compressed graphic files have to be uploaded as a supplementary file (*.zip, *.rar) on the web-site.

VI. EQUATIONS

The equations should be prepared using "Microsoft Equation" or "MathType" editor. (Insert | Object | Create New | Microsoft Equation or MathType Equation). "Float over text" should not be selected.

Each formula should occupy one line. The equation should be in the centre of the column. Equations should be numbered consecutively with Arabic numerals and cited (1) in the text. Consecutive numbers should be marked 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 before and after equation, 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

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

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 ...".

TABLE II. REQUIREMENTS FOR THE EQUATIONS.

Elements of the formulas	Font size	Font style	Type
Text	10 pt	Normal	Times New Roman
Functions	10 pt	Normal	Times New Roman
Variables	10 pt	Normal	Symbol, Italic
L.C.Greek	8 pt	Normal	Symbol, Italic
U.C.Greek	10 pt	Normal	Symbol, Italic
Symbols	12 pt	-	Symbol
Subsymbols	10 pt	-	Symbol
Vectors and matrices	10 pt	Bold	Times New Roman
Subscript/Superscript	8 pt	Normal	
Sub- Subscript/Superscript	7 pt	Normal	

VII. HELPFUL HINTS

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 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.

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 × 0.2 cm”, not “0.1 × 0.2 cm²”. The abbreviation for “seconds” is “s”, not “sec”. Do not mix complete spellings and abbreviations of units: 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”.

Remember to check spelling. If your native language is not English, please get a native English-speaking colleague to carefully proofread your paper.

C. 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”. Use the word “micrometer” instead of “micron”. 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). Use the word “whereas” instead of “while” (unless you are referring to simultaneous events). Do not use the word “essentially” to mean “approximately” or “effectively”. Be aware of the different meanings of the homophones “affect” (usually a verb) and “effect” (usually a noun), “complement” and “compliment,” “discreet” and “discrete”, “principal” (e.g., “principal investigator”) and “principle” (e.g., “principle of measurement”). Do not confuse “imply” and “infer.”

Prefixes such as “non”, “sub”, “micro”, “multi”, and “ultra” are not independent words; they should be joined to

the words they modify, usually without a hyphen. There is no period after the “et” in the Latin abbreviation “*et al.*” (it is also italicized). The abbreviation “i.e.,” means “that is,” and the abbreviation “e.g.,” means “for example” (these abbreviations are not italicized).

VIII. REFERENCES SECTION

Number the citations consecutively, in square brackets [1]. The sentence punctuation follows the brackets [2]. Multiple references [2], [3] are each numbered with separate brackets [1]–[3]. When citing a section in a book, please give the relevant page numbers [2]. You should avoid citing theses, dissertations or books. 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: “Reference [3] shows ...” **Please do not use automatic endnotes in Word, rather, type the reference list at the end of the paper using the “References” style.**

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Capitalize only the first word in a paper title, except for proper nouns and element symbols.

IX. PAPER STATUS

You may always see the status of your submission on the web-site.

X. CONCLUSIONS

Conclusions may review the main points of the paper, do not replicate the abstract as the conclusion. Conclusions might elaborate on the importance of the work or suggest applications and extensions. Make sure that the whole text of your paper observes the textual arrangement on this page.

APPENDIX A

Appendices, if present, must be marked A, B, C and placed before the Acknowledgment section.

ACKNOWLEDGMENT

Place your acknowledgments before References. Do not mention the sponsors and/or financial support obtained in this section. These specifications are to be included in an

unnumbered footnote on the first page of the paper.

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