

## Journal of Computer Science and Technology: Instruction for Authors

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**Abstract** Please provide an abstract of 100 to 250 words. The abstract should clearly state the nature and significance of the paper. It must not include undefined abbreviations, mathematical expressions or bibliographic references.

**Keywords** keyword, keyword, keyword, keyword, keyword, [Keywords should closely reflect the topic and should optically characterize the paper. Please use about 3~5 keywords or phrases in alphabetical order separated by commas.]

### 1 Introduction

Journal of Computer Science and Technology (JCST) is an international forum for scientists and engineers involved in all aspects of computer science and technology to publish high quality, refereed papers. It is an international research journal sponsored by Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS), and China Computer Federation (CCF). The journal is jointly published by Science Press of China and Springer on a bimonthly basis in English.

The journal offers survey and review articles from experts in the field, promoting insight and understanding of the state of the art, and trends in technology. The contents include original research and innovative applications from all parts of the world. While the journal presents mostly previously unpublished materials, selected conference papers with exceptional merit are also published, at the discretion of the editors.

The coverage of JCST includes computer architecture and systems, artificial intelligence and pattern recognition, computer networks and distributed computing, computer graphics and mul-

timedia, software systems, data management and data mining, theory and algorithms, emerging areas, and more.

#### 1.1 Manuscript Submission

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If the submission is for a focused section, please select the specific focused section from the list of article types. Please include a statement in the cover letter indicating the submission is for the specific focused section as laid out in the call-for-papers.

JCST publishes four types of papers: Regular Paper (its length is not seriously limited.), Short Paper (its length is not more than 5 typewritten pages.), Survey, and Review.

All contributions are handled in the same fashion. Review management is under the direc-

tion of an area editor, who will solicit two reviews for each submission. Usually, the review process takes 3~6 months, and the publication process after acceptance can take additional 4~6 months. However, JCST will make every effort to shorten the processes.

## 1.2 Title Page

The title page should include:

- the name(s) of the author(s);
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Please notify the publisher immediately of a change of your address.

## 1.3 Text

*Text Formatting.* Please refer to JCST Submit/Publish Template (LATEX, WORD) at : <http://jgst.ict.ac.cn:8080/jcst/EN/column/column63.shtml>. Manuscripts submitted for reviews should follow the JCST Submit Template, and those that have passed the review and are going to be accepted should use the JCST Publish Template.

All elements of formulae should be type-written whenever possible. Use the automatic page numbering function to number the pages. Do not use field functions. Use the table function, not spreadsheets, to make tables. Save your file in TeX or LaTeX files, or docx format (Word 2007 or higher) or doc format (older Word versions). For Word files, use the equation editor or MathType for equations.

*Abbreviations.* Abbreviations should be defined at first mention and used consistently thereafter.

*Footnotes.* Footnotes can be used to give additional information, which may include the citation of a reference included in the reference list. They should not consist solely of a reference citation, and they should never include the bibliographic details of a reference. They should also not contain any figures or tables. Footnotes to the text are numbered consecutively. Always use footnotes instead of endnotes.

*Acknowledgments.* Upon acceptance of the paper, authors may add acknowledgement of people, grants, funds, etc., which should be placed in a separate section. The names of funding organizations should be written in full.

*Biography and Photo.* Upon acceptance of the paper, authors will be asked to provide a short biography and a photo of each author, to be included at the end of the manuscript.

*Scientific Style.* Please always use internationally accepted signs and symbols for units (SI units).

## 1.4 References

### 1.4.1 Citation

Reference citations in the text should be identified by numbers in square brackets. Some examples:

- 1) Negotiation research spans many disciplines [3].
- 2) This effect has been widely studied [1-3, 7].

### 1.4.2 Reference List

The list of references should only include articles that are cited in the text and that have been published or accepted for publication. Personal communications and unpublished work should only be mentioned in the text using footnotes to give more information. Do not use footnotes or endnotes as a substitute for a reference list.

The references should be listed at the end of the manuscript and numbered in the order they are

referred to in the text. For journals the following information should appear: names (including initials of the first names) of all authors, full title of the paper, and journal name, volume, pages and year of publication. For books the following should be listed: author(s), full title, edition, publisher, place of publication and year.

## 1.5 Tables

All tables are numbered using Arabic numerals in the order they are referred to in the text.

Tables should be cited in text in consecutive numerical order. For each table, please supply a table caption (title) explaining the components of the table. Identify any previously published material by giving the original source in the form of a reference at the end of the table caption.

Footnotes to tables should be indicated by “Note:” and included beneath the table body.

**Table 1.** Tile of the Table [briefly explain the significance of the table in the caption]

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

Note: \*\*\*\*\*

## 1.6 Definitions and Theorems

**Definition 1.** All definitions are numbered using Arabic numerals in the order they are presented in the text.

**Theorem 1.** All theorems are numbered using

Arabic numerals in the order they are presented in the text.

*Proof.* The end of a proof should be marked by a  $\square$ .  $\square$

## 1.7 Artwork and Illustrations Guidelines

### 1.7.1 Electronic Figure Submission

- Supply all figures electronically.
- For vector graphics, the preferred format is EPS; for halftones, please use TIFF format. MSOffice files are also acceptable.
- Vector graphics containing fonts must have the fonts embedded in the files.
- Name your figure files with "Fig" and the figure number, e.g., Fig1.eps.

### 1.7.2 Line Art

**Definition 2** (Line Art). Lines are black and white graphic with no shading.

Do not use faint lines and/or lettering and check that all lines and lettering within the figures are legible at final size. All lines should be at least 0.1 mm (0.3 pt) wide. Scanned line drawings and line drawings in bitmap format should have a minimum resolution of 1200 dpi.

Vector graphics containing fonts must have the fonts embedded in the files.

### 1.7.3 Halftone Art

**Definition 3** (Halftone Art). Halftones include photographs, drawings, or paintings with fine shading, etc.

If any magnification is used in the photographs, indicate this by using scale bars within the figures themselves. Halftones should have a minimum resolution of 300 dpi.

### 1.7.4 Combination Art

**Definition 4** (Combination Art). Combination art is combination of halftone and line art, e.g.,

halftones containing line drawing, extensive lettering, color diagrams, etc. Combination artwork should have a minimum resolution of 600 dpi.

### 1.7.5 Color Art

Color art is free of charge for online publication. If black and white will be shown in the print version, make sure that the main information will still be visible. Many colors are not distinguishable from one another when converted to black and white. A simple way to check this is to make a xerographic copy to see if the necessary distinctions between the different colors are still apparent. If the figures will be printed in black and white, do not refer to color in the captions.

Color illustrations should be submitted as RGB (8 bits per channel).

### 1.7.6 Figure Lettering

To add lettering, it is best to use Helvetica or Arial (sans serif fonts). Keep lettering consistently sized throughout your final-sized artwork, usually about 2~3 mm (8~12 pt).

Variance of type size within an illustration should be minimal, e.g., do not use 8-pt type on an axis and 20-pt type for the axis label.

Avoid effects such as shading, outline letters, etc. Do not include titles or captions within your illustrations.

### 1.7.7 Figure Numbering

All figures are to be numbered using Arabic numerals in the order they are referred to in the text. Figures should always be cited in text in consecutive numerical order.

Figure parts should be denoted by lowercase letters: (a), (b), (c), etc.

If an appendix appears in your article and it contains one or more figures, number the appendix figures: A1, A2, A3, etc.

### 1.7.8 Figure Captions

Each figure should have a concise caption describing accurately what the figure depicts. Include the captions in the text file of the manuscript, not in the figure file.

Figure captions begin with the term Fig. in bold type, followed by the figure number, also in bold type. No punctuation is to be included after the number, nor is any punctuation to be placed at the end of the caption.

Identify all elements found in the figure in the figure caption; and use boxes, circles, etc., as coordinate points in graphs.

Identify previously published material by giving the original source in the form of a reference citation at the end of the figure caption.

### 1.7.9 Figure Placement and Size

When preparing your figures, size figures to fit in the column width.

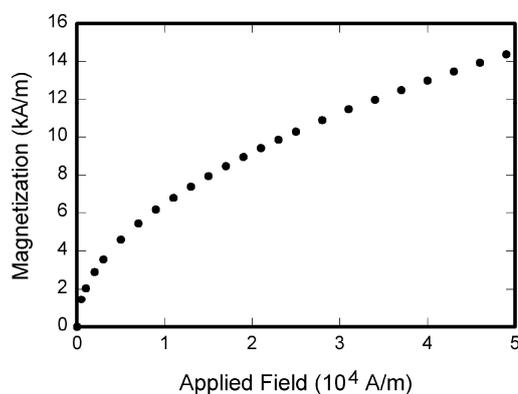


Fig.1. Caption [briefly explain the significance of the figure in the caption].

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In order to give people of all abilities and disabilities access to the content of your figures, please make sure that:

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Springer accepts electronic multimedia files (animations, movies, audio, etc.) and other supplementary files to be published online along with an article or a book chapter. This feature can add dimension to the author's article, as certain information cannot be printed or is more convenient in electronic form.

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tended. If the readers should be encouraged to make their own calculations, spreadsheets should be submitted as .xls files (MS Excel).

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### 1.8.2 Highlight

It is a short collection of information (e.g., text and graphics), in 4~5-pages PPT (with the first page presenting the title and the authors), to convey the research problem and the kernel findings, to provide readers with a quick overview of the article. The highlights describe the essence of the research (e.g., research problem, kernel contribution, results or conclusions) and highlight what is distinctive about it.

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If your manuscript is accepted it will be checked by our copyeditors for spelling and formal style before publication.

### [last section] Conclusions

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.

**Acknowledgement(s)** Upon acceptance of the paper, authors may add acknowledgement of people, grants, funds, etc., which should be placed in a separate section. The names of funding organizations should be written in full.

### References

- [1] Sayah J Y, Kime C R. Test scheduling in high performance VLSI system implementations. *IEEE Trans. Computers*, 1992, 41(1): 52-67. ([journal paper](#))
- [2] Gordon Plotkin. A semantics for type checking. In *Lecture Notes in Computer Science 526*, Ito T, Meyer A R (eds.), Springer-Verlag, 1991, pp.1-17. ([book chapter](#))
- [3] Geddes K O, Czapor S R, Labahn G. Algo-

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[4] Kwan A W, Bic L. Distributed memory computers. In *Proc. the 6th Int. Parallel Processing Symp.*, March 1992, pp.10-17.(conference).

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Photo of the third author

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