

Template of JASSE (July 29, 2014)

Instructions for preparing your manuscript

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Abstract. This is a \LaTeX template/instructions for the Journal of Advanced Simulation in Science and Engineering (JASSE). This version of the template is written on July 29, 2014. The authors must input paper's title, authors' name, affiliation, and corresponding author's email address. Abstract is written here. Moreover, the authors must put keywords of the paper below. It is essential to adhere to this template because your manuscripts are printed as submitted with minimal editing/formatting by publisher. Do not modify any formats or styles. Visit <http://jasse.jsst.jp/> for the latest version of JASSE template.

Keywords: Computer simulation, Numerical methods

1. Introduction

Journal of Advanced Simulation in Science and Engineering (JASSE) has been launched in October 2014. This is a new electronic journal published by the Japan Society for Simulation Technology (JSST), and edited by the JASSE Editorial Committee. JASSE covers the entire field of simulation in science and engineering. JASSE shall be published on J-STAGE web pages maintained by Japan Science and Technology Agency (JST).

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2. Manuscript length

The authors prepare their manuscripts according to the guidelines described on the web page:

<http://jasse.jsst.jp/>

The L^AT_EX style file and MS Word template file can be downloaded from this page. Papers do not usually exceed 20 pages of an A4-sized PDF file.

3. Typographical style

The detailed typographical style is presented in Table 1.

Table 1: JASSE typographical style (L^AT_EX file)

Part of the article	Fonts	Size
Article Title	Times Bold	\LARGE
Author Name	Times	\large
Author Affiliation	Times	\normalsize
Author Contact Email	Times Typewriter	\normalsize
Abstract & Keywords Heading	Times Bold	\normalsize
Abstract Body	Times	\normalsize
Section Title	Times Bold	\Large
Text Body	Times	\normalsize
Figure & Table Label Caption	Times	\normalsize
Acknowledgement Body	Times	\normalsize
Appendix Body	Times	\normalsize
Reference Body	Times	\normalsize

3.1. Title

The title should be centered. Only the first letter in the title is capitalized (this is true to section titles and figure captions). Avoid including abbreviations unless definitely needed.

3.2. Author name and affiliation

Author names should be centered. Spell out both first and last names but initial middle name.

3.3. Abstract

The abstract should be complete sentence(s) that is limited to approximately 100 words. It should be a concise summary of the paper that clearly conveys the problem, the methods, and the conclusions to the readers. It also should include appropriate keywords for the convenience of computer search. Do not include reference numbers.

3.4. Keywords

Maximum six (6) keywords are listed. Carefully choose appropriate keywords for your paper being correctly spotted by computerized search.

3.5. Main text and headings

Single column format is applied throughout the manuscript. The first line of the first paragraph of each section starts flush left. Section headings are numbered consecutively in Arabic numbers. Subsection headings are numbered in Arabic numbers to the right of the decimal point (like this 4.5.).

3.6. Equations

Equations are centered with the equation number (in Arabic) appearing in the right-hand margin, in parenthesis:

$$\begin{cases} i \frac{\partial u}{\partial t} - \Delta u + \kappa |u|^2 u = 0 & \text{in } \Omega \times [0, \infty), \\ u(x, t) = 0 & \text{in } \Gamma \times [0, \infty), \\ u(x, 0) = u_0(x). \end{cases} \quad (1)$$

Long equations can be folded in several lines but avoid leading to misinterpretation. Equations are referenced in the main text as (1).

3.7. Theorem, Algorithm, etc.

The examples of the theorem style are as follows:

Theorem 1 (Newton's apple). *This is a theorem style of template on JASSE.*

Proposition 2. *Proposition is not a theorem.*

Lemma 3. *We need to prepare each lemma.*

Corollary 4. *Corollary is a natural result corresponding to a theorem.*

Remark 1. *Remark is a useful way to explain some extra results.*

Remark 2. *Next Remark is written like this.*

Algorithm 1. *Algorithm is written like this.*

Algorithm 2. *Next Algorithm is written like this.*

Theorem, Proposition, Lemma, and Corollary are numbered consecutively. Otherwise, for example, each of Remark and Algorithm is numbered consecutively.

3.8. References

References should appear at the end of the manuscript, in the order in which they are referred in the main text. See the example in this template for different styles for citing a journal paper, a whole book, a contributed chapter in a book and a proceeding paper. It is authors' responsibility to provide correct information of references. Multiple references can be cited by using a comma separated form like this [1, 2, 3].

4. Display items (figures, tables, and movies)

4.1. Figures

Figures should be placed in the document. Do not submit figures in separate files. Use \LaTeX environment “`\begin{figure}`” and “`\end{figure}`” to place frames for figures. Place your figure as close to as the main text where it is referred. Figure position in published paper may differ from that in your original file, when publisher adjusts the final format. Figures are numbered in Arabic numerals. Figures are referred as Fig. 1 except at the beginning of a sentence. Figure captions are placed under corresponding figures.

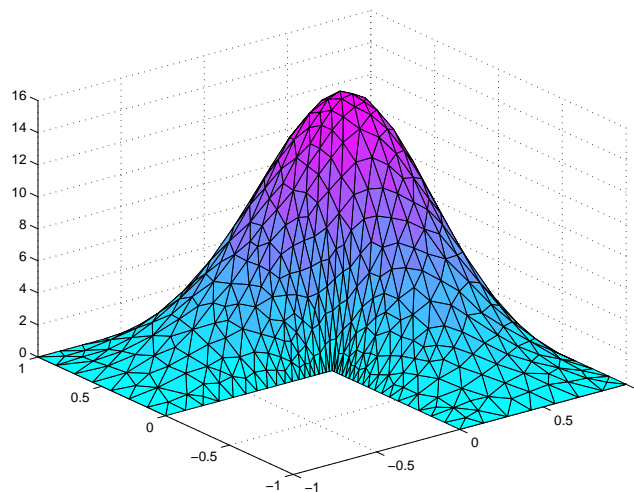


Figure 1: Include all graphics in the manuscript file.

4.2. Tables

Tables are placed in the document in the same manner as figures. Tables are also referred in Arabic numbers such as Table 2. Table captions are placed above the corresponding tables.

Table 2: Table example

h	$M_{h,1}$	order	$M_{h,1}(f)$	order	$M_{h,2}$	order	$M_{h,2}(f)$	order
1/2	2.61E-1	-	1.81E-1	-	1.90E-1	-	4.19E-2	-
1/4	1.37E-1	0.93	9.8E-2	0.89	9.63E-2	0.98	1.26E-2	1.73
1/8	7.08E-2	0.95	5.0E-2	0.96	4.84E-2	0.99	3.60E-3	1.81
1/16	3.65E-3	0.96	2.5E-2	0.99	2.43E-2	1.00	9.96E-4	1.85
1/32	1.85E-4	0.98	1.3E-2	1.00	1.21E-2	1.00	2.72E-4	1.88

4.3. Movie files

JASSE will not accept any kinds of movie files.

5. Submission

To submit manuscript to JASSE, authors should visit the web page:

<http://sys.jsst.jp/>

to complete a Submission Form and to upload the following items:

- PDF file of the manuscript for review
- Electronic file of manuscript in \LaTeX

Art submitted electronically is only acceptable as Encapsulated Postscripts (.eps) for graphics. Self-descriptive file names such as fig1.eps are preferred. Authors are also requested to list up expected Associate Editor, unexpected Associate Editor, possible reviewers, or unexpected reviewers in the comment field.

Acknowledgement

Acknowledgements, if any, can be placed just after the last section (usually just after “Conclusions”). Your acknowledgements to co-workers and financial sponsors are placed here.

Appendix A. Style of an appendix

Appendices, if any, can be placed after the Acknowledgements, but before the References. Appendix headings are numbered in alphabet order (like A, B, C).

Appendix B. Second appendix

This is a second appendix of the paper.

References

- [1] A. Author, B. Author, C. Author: Title of journal paper should be referred like this, *Journal Title in Italic*, volume:number (year), pagebegin–pageend.
- [2] S. Oishi, S. M. Rump: Fast verification of solutions of matrix equations, *Numer. Math.*, 90:4 (2002), 755–773.
- [3] A. Author, B. Author, C. Author: Title of proceedings paper should be referred like this, in *Proceedings Name in Italic*, City, year, pagebegin–pageend.
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