

## SHORT COMMUNICATION

# Preparation of Your Manuscripts: A Nice Title Here!

First Author TOHOKU<sup>1, \*</sup>, Second Author SENDAI<sup>2</sup> and Third Author AOBA<sup>2</sup>

<sup>1</sup>*Graduate School of Information Sciences, Tohoku University, Sendai 980-8579, Japan*

<sup>2</sup>*Research Institute of Electrical Communication, Tohoku University, Sendai 980-8577, Japan*

A brief abstract of 200 words or less must be set here. An abstract should state briefly the purpose of the research, the principal results and major conclusions. The abstract is often presented separately from the article and stored in database, so it must be able to stand alone and be self-contained. Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

KEYWORDS: Provide up to five keywords, keyword 2, keyword 3, keyword 4, keyword 5

## 1 Introduction

This document describes the preparation of a manuscript using  $\LaTeX 2_{\epsilon}$  and “iis.cls”(the IIS  $\LaTeX 2_{\epsilon}$  preprint class file). This class file is designed to help authors produce manuscripts in a form suitable for submission to the journal *Interdisciplinary Information Sciences* published by the Graduate School of Information Sciences, Tohoku University. It produces preprints *imitating* the final form of the publication. On acceptance, the  $\TeX$  source codes will be converted to the appropriate format for the final production.

## 2 Submission Guidelines

### 2.1 Overview

Manuscripts are accepted for publication with the understanding that manuscripts have not been published, in printing, or under review elsewhere. Authors are encouraged to submit their manuscripts electronically and in PDF format to the editorial office:

iis@is.tohoku.ac.jp

If the electronic submission is not available, manuscripts may be sent in triplicate by post to

Editorial Office  
 Interdisciplinary Information Sciences  
 Graduate School of Information Sciences  
 Tohoku University  
 Sendai 980-8579 Japan

Manuscripts in PDF format are used only for the review process. After the manuscript is accepted for publication, we will ask the authors to submit all source material to the editorial office.

### 2.2 File preparation

- (1) Manuscripts should be written in English.
- (2) Manuscripts for short communications should be within 4 pages in the final form of the publication of the journal.
- (3) Authors are encouraged to use  $\LaTeX$ , MS Word, or other common varieties of word-processors. The style files for  $\LaTeX$  and MS Word are available on our journal website:

<http://www.is.tohoku.ac.jp/publication/IIS.html>

- (4) Most  $\LaTeX 2_{\epsilon}$  packages can be used if they are available in the normal distribution of  $\LaTeX 2_{\epsilon}$ ; however, if it is essential to use a non-standard package then any extra files needed to process the article must also be sent in. Authors should be aware that the final version will be printed on a different page size and using different fonts to the preprint version so that any special effects used should not contain material that is not easily scalable. Alterations to the source code will be made during the journal production process.

---

Received January DD, 20YY; Accepted February DD, 20YY; J-STAGE Advance published March DD, 20YY

2010 Mathematics Subject Classification: Primary XXXXX, Secondary XXXXX, etc.

This work is supported by Grant XYZ.

\*Corresponding author. E-mail: corresponding-author@e-mail.address.here

- (5) Authors may add their own macros in the preamble to the paper provided they do not overwrite existing definitions. However, it is recommended not to (re)define authors' own commands.

### 2.3 Copyright Agreement

The copyright of every article published in the Interdisciplinary Information Sciences shall be transferred to the Graduate School of Information Sciences, Tohoku University, Japan (GSIS). GSIS shall have the right to publish the article in any medium of form, or by any means, now known or later developed. The authors should agree that the paper will not be republished without the consent of GSIS. The authors reserve the following:

- (1) all proprietary rights other than copyright such as patent rights;
- (2) the right to use all or part of the manuscript in personal future works such as books and lectures.

A properly completed Copyright Transfer Form (available on our journal website) must be submitted prior to the publication of an accepted paper.

## 3 Essential Title Page Information

### 3.1 Title

Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae as far as possible. If the title is too long to use as a running head at the top of each page (apart from the first) a short form can be provided.

### 3.2 Author names and affiliations

Provide the full information of authors' names and their affiliations. When the family name may be ambiguous (e.g., double names), please indicate them clearly. Indicate all affiliations after each author's name, with the full postal address of each affiliation including the country name. Also provide, if available, the e-mail address of each author.

### 3.3 Corresponding author

Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication.

### 3.4 Abstract

A brief abstract of 200 words or less must be included. An abstract should state briefly the purpose of the research, the principal results and major conclusions. The abstract is often presented separately from the article and stored in database, so it must be able to stand alone and be self-contained. Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

### 3.5 Keywords

Provide up to five keywords.

### 3.6 Subject classification codes (optional)

Provide the internationally adopted subject classification code(s) for the study field. For example, Mathematics Subject Classification (MSC), Physics and Astronomy Classification Scheme (PACS), ACM Computing Classification System, JEL (Journal of Economic Literature) codes, and others.

## 4 Figures and Photographs

Figures (with their captions) can be incorporated into the text at the appropriate position or grouped together at the end of the article, see Fig. 1. Figures and photographs must be of publication quality. Color figures and photographs are also accepted with no extra charge. After acceptance, authors will need to submit the original source files.

A typical text for a figure is as follows:

```
\begin{figure}[hbt]
\centering
\includegraphics[width=80mm,keepaspectratio,clip]{fig01.eps}
\caption{Set the figure caption.}
\label{fig1}
\end{figure}
```

*Remark 4.1* (Using copyright material). If the authors wish to use material for which they do not own the copyright, they must seek permission from the copyright holder, usually both the author and the publisher of the previous work. It is the authors' responsibility to obtain copyright permissions and this should be done prior to submitting your paper. If you have obtained permission, please provide full details of the permission granted—for example, copies of the text of any

Fig. 1. Set the figure caption.

e-mails or a copy of any letters you may have received. Figure captions must include an acknowledgment of the original source of the material.

## 5 References

Bibliographical references should be complete, including article titles and page ranges. All references in the bibliography should be cited in the text. Authors are encouraged to check the style of references in the recent issues, but may use a common format in major publications of their research fields.

Some typical entries would be:

```
\begin{thebibliography}{99}
\bibitem{rf1}
\au{Name, X. Y.}
\jnl{Title}{Journal title}{Volume}{Start page--End page}{Year}
\bibitem{rf2}
\au{Name, N. N., and Second, B.},
\jnl{Title}{e-Journal title}{Volume (optional)}{identification of articles}{Year}
\bibitem{rf3}
\au{Name, N. N., Second, B., and Third, C. C.},
\book{Title}{Publisher}{Year}
\end{thebibliography}
```

The “References” appears as is seen at the end of this document. See also the current issues for the styles.

## 6 Proofs and Reprints

Galley proofs will be sent to the corresponding author. Excessive alterations are not allowed and will be charged to the authors if absolutely necessary.

The PDF files are available freely on our journal website (J-STAGE) after publication. Reprints can be purchased; a reprint order form will be sent to the author with galley proofs.

## 7 Mathematics

Authors can use common  $\text{\TeX}$  commands to generate mathematical expressions. Here are just a few hints for preparation of manuscripts.

**Lemma 7.1.** *A displayed equation with number appears as follows:*

$$\int_0^{\infty} xe^{-\alpha x} dx = \frac{1}{\alpha^2}, \quad \alpha > 0. \quad (7.1)$$

*Proof.* The proof appears like this. By integration by parts,

$$\int_0^{\infty} xe^{-\alpha x} dx = \left[ x \left( -\frac{1}{\alpha} e^{-\alpha x} \right) \right]_{x=0}^{\infty} - \int_0^{\infty} \left( -\frac{1}{\alpha} e^{-\alpha x} \right) dx. \quad (7.2)$$

Since the first term in the right-hand side of (7.2) is zero, we obtain

$$\int_0^{\infty} xe^{-\alpha x} dx = \frac{1}{\alpha} \int_0^{\infty} e^{-\alpha x} dx = \frac{1}{\alpha^2}.$$

This proves (7.1). □

**Proposition 7.2** (Name [1, Section 12.3]). *We often need to list a few equations. Displayed equations with numbers appear as follows:*

$$\alpha^2 + \frac{1}{\beta} = \gamma^2, \quad (7.3)$$

$$2\beta + \gamma^2 + \sin \theta = C + \lim_{n \rightarrow \infty} \sqrt{\delta_n}. \quad (7.4)$$

**Theorem 7.3** (Name [2]). *Here is another example:*

$$\begin{aligned} \Lambda &= 2\gamma^2 + \cos \theta + \frac{XY \sin \theta}{X + Y \cos \theta} \\ &= \sum_{i=1}^{\infty} \delta_i \cos \theta_i. \end{aligned} \quad (7.5)$$

*Proof.* This is an immediate consequence from Proposition 7.2, see also [6, Chap. 5]. □

**Corollary 7.4.** *A simple consequence from Theorem 7.3 is stated here.*

## Acknowledgments

Authors wishing to acknowledge assistance or encouragement from colleagues or financial support from organizations should do so in an unnumbered ‘‘Acknowledgments’’ section:

`\section*{Acknowledgments}`

This must be set immediately following the last numbered section of the paper.

## REFERENCES

- [1] Name, X. Y., ‘‘Title,’’ *Journal title*, **Volume**: Start page–End page (Year)
- [2] Name, N. N., and Second, B., ‘‘Title,’’ *e-Journal title*, **Volume (optional)**: identification of articles (Year)
- [3] Name, N. N., Second, B., and Third, C. C., Title, Publisher (Year)
- [4] Bbxyž, J. G., ‘‘Convolution products and their applications,’’ *J. Math. Anal.*, **121**: 99–104 (1996)
- [5] Goodman, S. K., ‘‘A new approach to quantum theory,’’ *Phys. Rev. D*, **58**: 011345 (2012)
- [6] Jones, P. L., Applied Mathematics, XXX Pub. Co. (1983)