

# Writing Manuscripts with LaTeX2e

First Author,          Second Author          and Third Author

## Abstract

Advanced Robotics is the international journal of the Robotics Society of Japan. This is an example file for those who are considering to write their manuscripts in LaTeX2e and to submit to Advance Robotics. Approximately 200-word (100-word for short papers) abstract must be printed on the cover page B, followed by the list of keywords (see below). The abstract may consist of, for example, the background and the aim of the study, the authors' approach, what authors have achieved, its evaluations, and conclusions. The original or innovative point of the paper should be clearly described.

*keywords:* robot, automaton, mechanical man, android, humanoid

## 1 INTRODUCTION

This document illustrates how to prepare your manuscript to submit to Advanced Robotics in LaTeX format.

What this document says may sometimes conflict with those in our web page. In such cases, follow not this example, but the rules and guidelines in the web page. The aim of this document is just to provide an example file which can be compiled with our style files.

## 2 LANGUAGE

Manuscripts must be written in English. The editorial board of Advanced Robotics recommends every author to have the manuscript checked by professional proof readers because of the following reason: you should understand that manuscripts in poor English are sometimes handicapped in the review processes, and even when the manuscript is acceptable, it often takes longer time to be reviewed.

## 3 CATEGORIES

A full paper is a paper which describes author's original contribution to robotics. A survey paper is either a review or a tutorial. A short paper is a paper which describes a result, a particular technique, or an experiment of general interest.

Full and survey papers should not exceed 8000 words, while short papers are limited to 4000 words.

## 4 FORMAT and STYLE

Manuscripts must be typed single-sided on A4 (or US letter sized) papers.

As for the style, please understand our policy that the style file for the submission should be different from the one for the publication.

- **Manuscript Style**

- It must be as simple as possible for the sake of authors' convenience.
- It must have enough line spacing pitch for the convenience of proof read.

- **Journal Style**

- It must have enough capability to yield beautiful and impressive page layouts.
- It may demand professional typesetting skills of the user and special font sets installed in the compiling system.

When you submit your paper, use 'arsubmit.sty' and 'arsubmit.cls,' which are distributed with this sample file 'sample2e.tex.' 'Arsubmit' document class is almost same as standard 'article' document class for LaTeX2e, except for the 1.5-line spacing, and bigger text area. In 'arsubmit' class, the well-known macros and environments of standard 'article' class can be used in the exactly same manner.

As for the journal page image, you can have a good guess by using 'article' class of LaTeX2e, but do not spend your time on solving minor layout problems. When your paper is accepted, professional typesetters will take care of it to render in beautiful pages.

## 5 REFERENCES, EQUATIONS, FIGURES, and TABLES

### 5.1 References

References should be listed at the end of the paper in the reference section in the cited order with consecutive numbers in this way for books [1], edited books [2], journal papers [3], and for proceedings papers [4].

### 5.2 Equations

Equations and formulae must be typed and consecutively numbered using Arabic numerals in parentheses:

$$\omega = 2 \frac{dq}{dt} \bar{q} = 2 \begin{pmatrix} -\frac{dq_0}{dt} q_1 + \frac{dq_1}{dt} q_0 - \frac{dq_2}{dt} q_3 + \frac{dq_3}{dt} q_2 \\ -\frac{dq_0}{dt} q_2 + \frac{dq_1}{dt} q_3 + \frac{dq_2}{dt} q_0 - \frac{dq_3}{dt} q_1 \\ -\frac{dq_0}{dt} q_3 - \frac{dq_1}{dt} q_2 + \frac{dq_2}{dt} q_1 + \frac{dq_3}{dt} q_0 \end{pmatrix}. \quad (1)$$

### 5.3 Figures

Figures must be numbered consecutively, and captioned appropriately. Photos are to be dealt with in the same way as figures.

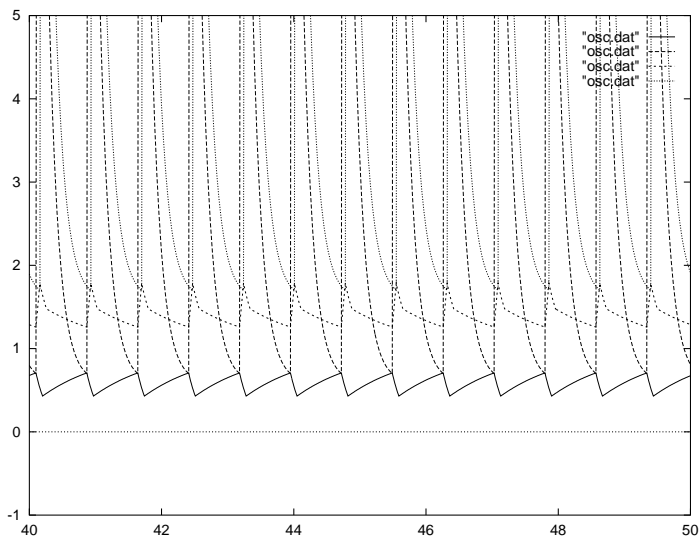


Figure 1: Responses of integrate-and-fire type units.

### 5.4 Tables

Tables also must be numbered consecutively, and captioned appropriately.

Table 1: Categories of papers and size limits.

| Category     | Limit<br>(words) | Abstract<br>(words) |
|--------------|------------------|---------------------|
| full paper   | 8000             | 200                 |
| survey paper | 8000             | 200                 |
| short paper  | 4000             | 100                 |

## 6 SUBMITTING YOUR MANUSCRIPT

### 6.1 Preparing the manuscript

A manuscript should contain the following set of materials:

**Cover page A** Containing the list of following information:

1. Category of paper (full, survey, or short paper)
2. Paper title
3. Names and affiliations of authors.
4. Contact information (Corresponding author's name, address, phone number, facsimile number, and E-mail address).

**Cover page B**

1. Abstract (200 words for full and survey papers, 100 for short ones).
2. List of keywords (no more than 5).

**Text body and reference list** Typed or printed single-sided, 1.5-line spacing on A4 (or US letter sized) papers, numbered beginning with the title page. References must be listed in the reference section in the order they are cited in the text body.

### **List and Captions of Figures (including photos) and Tables**

**Figures (including photos) and Tables** Figures (including photos) must have suitable quality for reproduction.

### **Note**

The copies of original photos, figures, and tables may appear in the text body, but the original ones must be provided with good quality for reproduction on separate sheets, or as electronic image files.

## **6.2 Preparing 'Paper Information Form'**

Download the PDF "Paper Information Form" from our web page:

[http://www.advanced-robotics.org/\\_4authors/](http://www.advanced-robotics.org/_4authors/).

Fill it in on PDF browsers (e.g. Acrobat Reader), then print it and sign manually.

### **Note**

The principal author is responsible to secure requisite permission from his/her employer, and all papers submitted are understood to have received due clearance(s) for publication.

## **6.3 Submission**

Submit 5 copies of the manuscript together with the "Paper Information Form" to the Editor-in-Chief:

Professor Kazuhiro Kosuge  
Editor-in-Chief, Advanced Robotics  
Robotics Society of Japan,  
2FL. Blue Bdg., 2-19-7, Hongo, Bunkyo-ku, Tokyo 113-0033  
Japan.

## 7 CONCLUSIONS

A sample L<sup>A</sup>T<sub>E</sub>X2e file for 'arsubmit' document class is provided. Authors are recommended to follow instructions and guidelines on our web page if there are any conflicting points with the contents of this document.

## REFERENCES

- [1] S. Amari and H. Nagaoka, *Methods of Information Geometry*, Oxford University Press (1993).
- [2] M. I. Jordan, An Introduction to Linear Algebra in Parallel Distributed Processing, in *Parallel Distributed Processing*, D. E. Rumelhart et al. (Eds.), pp.365-422, MIT Press, Cambridge, MA (1986)
- [3] S. Amari, Differential geometry of curved exponential families – curvature and information loss. *Ann. Stat.*, **16**, 357-385 (1982).
- [4] R. Hashimoto, T. Masuda, S. Gardella, and M. Wada, Solving Optimal Control Problems with Neural Network Learning, in *Proc. International Workshop on Intelligent Robots and Systems*, Osaka, pp.1127-1132 (1991)

## APPENDIX

### A AFTER SUBMISSION

Except for troublesome and very unlucky cases, the review process will be completed within 20 weeks after the materials arrive at the secretariat of Advanced Robotics.

If your paper is accepted, the Editor-in-Chief will send you the acceptance letter. Then you will be requested to send biographical sketches and portraits of all the authors. We recommend you to send also the electronic files (floppy disk or CD-ROM in Windows format) containing your manuscript with them. It will help shortening the typesetting process, and also reduce the number of typographical errors. Then the secretariat will forward all the materials to our partner publisher (Brill/VSP). The manufacturing editor there will help you to refine the English and to correct errors before your paper is typeset.

By the way, the reviewers are requested to judge without questioning the authors. As a result, papers are often judged to be 'Reject but Recommend Re-submission'. Do not be discouraged, it is not a bad news. Just read what reviewers advise, revise the manuscript and submit it again.

## **B PUBLICATION CHARGE**

There is no charge for publication except in the case that your paper exceeds the page limit.

## **C SUBSCRIPTION**

The members of Robotics Society of Japan get benefit of special discount rate when taking out a subscription to Advanced Robotics. Check our web site for detailed information.