

How to Prepare Manuscript for Aerospace Technology Japan

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This is the manual for how to prepare your paper for Transactions of JSASS, Aerospace Technology Japan On-Line Journal. All the papers should be written by appropriate word processors with the format specified in this manual. Abstract should be placed here.

Key Words: Format Sample, ISTS, ISSFD, NSAT (no more than 5)

Nomenclature

V : velocity, m/s

X : position

Subscripts

0 : initial

f : final

1. Introduction

These guidelines include complete descriptions of the fonts, spacing, and related information for producing your manuscripts. Please pay extreme attention to keep the original format shown in this file.

1.1. Style

Each paper is allowed up to 10 pages of texts, including figures and tables. But never exceed 10 pages. Color graphics are acceptable. However, movie files and some kinds of software tools should not be included in the paper.

The authors whose papers are not related to technologies but science are encouraged to submit their manuscript to Transactions of JSASS, but not Aerospace Technology Japan, because Aerospace Technology Japan is a journal featuring the field of aerospace technologies specifically.

1.2. English standard

Manuscripts should be written in clear, grammatically correct English. Authors who are not fluent in English are encouraged to have their manuscript checked by a fluent English speaker or by an editing service prior to submission. If a manuscript is not clear due to poor English, it may be rejected without undergoing peer review.

2. Cover of the Manuscript

2.1. Title

The title should be brief and concise (maximum of 20 words), without the use of acronyms or abbreviations. The title should be centered, and in Times 14-point, boldface type. Capitalize the first letter of nouns, pronouns, verbs, adjectives, and adverbs; do not capitalize articles, coordinate conjunctions, or prepositions (unless the title begins with such a word). Leave a blank line after the title. The space between the lines is 17.5 point.

2.2. Author name(s)

Provide the full names, with capitalized last name(s), of the author(s). Author names are to be centered beneath the title and printed in Times 10-point, non-boldface type. Only primary contributors should be listed in authors list; others may appear in Acknowledgment. The first name is printed in 10 pt, and the first letter of the first name should be capitalized. The family name must be capitalized, only the first letter of the family name is 10 pt, and the other letters of the family name must be in 8pt. “and” is also necessary before the last author’s name. For the case of more than two authors, a command is necessary between author’s names.

Place a superscript number corresponding to the affiliation on right of each author’s name, but after a comma between authors’ names.

2.3. Affiliation(s)

Affiliations should follow on the next line, be centered, italicized and in Times 8-point, not bold. City name must be included, but prefecture (state, specified districts) name must be excluded. Leave two blank lines after the affiliations. The space between the lines is 10-point. Affiliation number with a parenthesis must be placed in front of each affiliation in Roman.

2.4. Received date

(Received date Month day, 20XX) is unnecessary when submitting your manuscript for journal, but it is necessary above Abstract when submitting to “Aerospace Technology Japan.” The received date is the first date of submission to “Aerospace Technology Japan.”

2.5. Key words

Specify three to five key words preferably including at least one keyword selected from the "JSASS Standard Key Words" list, if possible.

Key word should be centered, in Times 9-point, not bold. Begin by "**Key Words:**" (in Times 9-points, boldface type, and 2 letters blank) at the top. No more than 5 key words. All words must start with upper case.

2.6. Abstract

Each full article must be accompanied by a 100- to 200-word abstract that is indented 4 letters, written as a single paragraph, printed in Times 9-point, not bold, flush left. Leave 30 mm in both sides. The space between the lines is 11.5-point. Leave one blank line after the abstract.

It should be a summary and complete in itself. The abstract should indicate the basic content of the paper in a single paragraph and should include the problem addressed, objectives, approach, main results and findings, and conclusions. Research notes and miscellaneous do not have abstracts.

3. Main Text

Type your main text in 10-point Times, single-spaced. All paragraphs should be indented 2 letters. Be sure your text is fully justified. The space between the lines is 12-point.

3.1. Major-headings

For example, "**1.(2 letters blank)Introduction**", should be Times 10-point boldface, with the first letter capitalized, flush left, with one blank line from last, leaving one blank line to next. Use a period (".") after the heading number, not a colon.

3.2. Sub-headings

For example, "**4.4.(2 letters blank) Second-order headings**", should be Times 10-point boldface, initially capitalized, flush left and with no blank line from last.

3.2.1. Sub-sub-headings

For example, "**4.4.1.(2 letters blank) Third-order headings**", should be Times 10-point boldface, initially capitalized, flush left and with no blank line from last.

3.3. Nomenclature

A nomenclature section is required for papers containing more than a few symbols; nomenclature definitions should not appear in the text.

Nomenclature should be beneath the key words as follows: "Symbol (V, X *etc.*): (colon) (2 letter blank) Definitions". The position of colon is 35 mm from the left end of the page.

Please use standard symbols whenever possible. The symbols are in 10-point and the definitions are in Times 10-point, not bold. Symbols are listed in alphabetical order. Greek symbols must be listed in Greek alphabetical order after English alphabet. Please use standard symbols whenever possible. All symbols need to be defined.

3.4. Introduction

The paper must include an Introduction except for Nomenclature – a brief assessment of prior work by others and an explanation of how the paper contributes to the field.

3.5. Symbols and unit

Use standard symbols whenever possible. Mathematical symbols should be italicized. To save space, the solidus (/) must be used for fractions in the text and for simple fractions in equations. The use of metric system of units (SI) is mandatory, except for unavoidable cases.

3.6. Equations

The symbols should be in 10-point and centered. The equation numbers should be right flush, as (1).

$$A + B = C, \quad (1)$$

and

$$D + E = F. \quad (2)$$

Other example equations are shown in the following. One is the definition of St_n

$$St_n = \frac{f_n L}{U_\infty} = \frac{n}{\left[\beta M_\infty \left(1 + \frac{\gamma-1}{2} M_\infty^2 \right)^{-1/2} + \frac{1}{K} \right]} \quad (3)$$

$n = 1, 2, 3, \dots$

and another one is differential equation

$$\langle \nabla^2 \phi \rangle_i = \frac{2d}{\lambda n^0} \sum_{j \neq i} \left[(\phi_j - \phi_i) w(|\mathbf{r}_j - \mathbf{r}_i|) \right], \quad (4)$$

where

$$\lambda = \frac{\sum_{j \neq i} |\mathbf{r}_j - \mathbf{r}_i|^2 w(|\mathbf{r}_j - \mathbf{r}_i|)}{\sum_{j \neq i} w(|\mathbf{r}_j - \mathbf{r}_i|)}. \quad (5)$$

Please use "Equation (1) at the beginning of sentences. Otherwise use "Eq. (1)" or "Eqs. (1) and (2)" in the text.

A comma is necessary after each equation if equations are not the last sentence. If the equation is the last sentence, a period is necessary after the equation.

3.7. Tables

Table captions should be 8-point Times and centered. For example: "Table(a letter blank)1.(2 letters blanks)Form of the paper". Capitalize only the first word of each caption. The captions are to be over the tables. All tables must be referred to in the text. The horizontal top and bottom lines must be bold. Vertical lines should not be used unless it is difficult to distinguish columns.

Items	Values
Paper size	A4
Max number of pages	10
Margin	Top: 25 mm and under: 25 mm side: 17 mm
Font	Times-New-Roman and symbol

Table 1. Form of the paper.

3.8. Figures and illustrations

Figure captions should be 8-point Times and centered. For example: "Fig.(a letter blank)1.(2 letters blanks)The symbol of JSASS". Capitalize only the first word of each caption. The captions are to be below the figures. Please use "Figure 1" or "Figures 1 and 2" at the beginning of sentences. Otherwise use "Fig. 1", or "Figs. 1 and 2" in the

text. All figures must be referred to in the text.



Fig. 1. The symbol of JSASS. Only the first letter in a sentence should be upper case. Single-line caption should be centered. In plural-line caption, lines before the last one both sided, the last one flush left. Captions must stop with a period.

3.9. Quoted figures

If figures, tables, statistics, etc. are quotations from writings of others, the source of information should be noted in the captions. It is the author's responsibility to secure such approvals as this may be required for the quotations.

3.10. Acceptable file format

Electronic reference file format acceptable is as follows: PDF, JPG, JPEG, BMP, ZIP, LZH, WMV, MP4.

4. References

Only readily accessible documents should be referenced. References must be listed at the end of the manuscript and numbered in the order of their citation in the text. All references in the References list must be cited in the main text.

Formats for references and acknowledgments should fit to the followings: All references must be listed and numbered in the order of their citation in the text in 8-point Times at the end of your paper. The space between the lines is 10-10.5-point. When references are cited in the text, write the numbers referred to as A,¹⁾ or B,^{2,3)} or C,⁴⁻¹⁰⁾ after a comma,¹¹⁾ or a period.¹²⁻²²⁾ If the numbered reference citation is a word of the main text, write it as in the following example. "Reference 23) gives the definition of ..." at the beginning of sentence, or "As shown in Ref. 24), the three-body problem should be taken into account for mission design." for other cases.

The sample of references is shown at the end of this guideline. The heading of it should be "**References**" that is 10-point, bold, centered. All references must be referred to in the text.^{25,26)}

The heading "**Acknowledgments**" is 10-point, bold, flush left.

5. PDF File Conversion

The author must convert the manuscript into a 600 dpi PDF before submission. The maximum file size of the PDF is 5 MB. The PDF file must be readable regardless of the machine used to access it, and therefore the use of any special fonts, such as Japanese fonts, is not permitted.

- Embed all fonts (symbols, space etc.) in the PDF file.
- Do NOT create bookmarks.
- Do NOT set security.

6. Supplementary Material

Supplementary Material adds, but is not essential, to a reader's understanding of a manuscript. Electronic reference files including additional information ("Supplementary Materials") can be included with each manuscript submission and made available at the article page, at an additional charge (see the 'Article Processing Charges and other fees' section). Supplementary Material does not undergo formal peer review, but will be approved by the Editorial Board prior to publication.

Each article published at the journal's website may include a maximum of five files of Supplementary Material. (File size is to be less than 5 MB per file and no more than 10 MB in total.) Acceptable file formats are: PDF, JPG, JPEG, BMP, ZIP, LZH, WMV, and MP4.

7. Conclusion

The Conclusion section should be placed in the last section of the manuscript. Conclusion should be clearly stated.

Acknowledgments

This section should be brief. In the interests of transparency, all authors must declare any conflicts of interest in relation to their submitted manuscript. Authors should list all funding sources for their work in the Acknowledgments section. The heading "**Acknowledgments**" is 10-point, bold, flush left. The editorial office appreciates authors' efforts to fully follow this template style. This text should be in 9-point.

The editorial office appreciates authors' efforts to fully follow this template style when submitting the manuscript to Aerospace Technology Japan when the author Authors would like to prepare "publish style PDF" by their own.

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Book case (when submitting, please delete this line)

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