

Author Guidelines for Turbomachinery

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Chapter 1 Submission Cover Sheet

1-1 General Instructions

1. Complete the submission cover sheet provided by the Turbomachinery Society of Japan (hereafter TSJ) with all required information.

1-2 Specific Instructions for Each Item

1. Publication Category

- (1) Circle the applicable category for your submission in the "Publication Category" section.

2. Title

- (1) The title should clearly and concisely reflect the content of the manuscript.
 - a. Avoid overly general titles that resemble book titles.
 - b. Subtitles may be used if necessary.
 - c. Avoid using specific company names or product names in the title.

3. English Title

- (1) An English title is mandatory.
- (2) It does not need to be a word-for-word translation of the Japanese title, but the meaning must be identical.
- (3) Adhere to the following rules regarding the English title:
 - a. Capitalization: Capitalize the first letter of each word (excluding articles, prepositions, etc., unless they are the first word of the title).
 - b. Hyphenated Words: As a general rule, limit hyphenated compounds to those in standard usage. Capitalize the word immediately following the hyphen.
 - c. Participles: Capitalize the first letter of present and past participles. However, lowercase words such as "including" or "excluding" when they function as prepositions.
 - d. Inside/Outside: Capitalize "inside" and "outside" when used as nouns, adjectives, or adverbs. Lowercase them when used as prepositions.
 - e. Quotation Marks: Use double quotation marks (" ") in the English title where Japanese brackets (「 」) are used in the Japanese title.
 - f. Specific Terminology: Write "Turbomachinery" as a single word (do not split into "Turbo" and "machinery"). Do not use the plural form.
 - g. Indefinite Articles: If a countable noun is singular, include the indefinite article "a" or "an".
 - h. Uncountable Nouns: In principle, do not use articles before uncountable nouns.
 - i. Definite Articles: Use the definite article "the" when necessary (e.g., when referring to something previously mentioned, when used with superlative adjectives, or for unique entities).

4. Author and Co-author Names

- (1) English Name Format: Format names as [First Name] [SURNAME]. Capitalize only the first letter of the first name, and capitalize all letters of the surname.

Example: Taro Kikai → Taro KIKAI

- (2) Affiliation: Provide the name of the organization and the specific department or division (or equivalent).

Example: XX Division, XX Plant, XX Machinery Co., Ltd.; or Department of XX, Faculty of XX, XX University.

- (3) Retired Authors: If an author has retired, list their former affiliation unless there is a specific reason not to.

5. Contact Information

- (1) Provide the e-mail address of the corresponding author. This address will be used for inquiries and will be published in the footnote on the first page of the article.

- (2) If you do not wish to have your e-mail address published, circle "Not to be disclosed"

6. Classification by Machine Type and Phenomenon

- (1) Select the applicable machine types and phenomena from the table below. Multiple selections are permitted.

Classification by Machine Type		Classification by Phenomenon	
A	Pumps	00	Development/design, optimization, specification trends and cost
B	Hydro turbines	01	Performance/efficiency
C	Fans, blowers and compressors	02	Flow including internal flow, supersonic flow, jet, boundary layer and multiphase flow
D	Steam turbines, expanders	03	Flow instability including surging and rotating stall
E	Gas turbines including jet engines	04	Reliability including fail safe and life evaluation
F	Wind turbines	05	Environment, noise
G	Elements (Fluid sealing and lubrication)	06	Control systems including operation, monitoring, maintenance
H	Plant, power distribution systems	07	Measurement technology including visualization technology
I	Turbochargers	08	Materials
J	Propellers	09	Vibration/rotor dynamics
K	Torque converters	10	Tribology
L	Positive displacement fluid machinery	11	Strength
M	Micro/Nano machines	12	Heat transfer/cooling
N	Sensors	13	Cavitation and bubbles
O	Air/underwater vehicles including drones	14	Others
P	Applications in renewable energy		
Q	Others		

Chapter 2: Guidelines for Manuscript Preparation

2-1 Formatting and Setting

1. Formatting

- (1) Prepare the manuscript using a computer. The page orientation must be A4 portrait, and text should be written horizontally from left to right.
- (2) The layout must be strictly set to 21 characters per line × 37 lines per column.

2. Order of Sections

- (1) The manuscript should be arranged in the following order: Title, (English Title), Author Name(s), Affiliation(s), (E-mail Address), (Abstract), (Keywords), and Main Text.
- (2) Refer to the attached "Manuscript Sample" for visual guidance.
- (3) For details regarding the Title, English Title, Author Name(s), Affiliation(s), and E-mail Address, refer to "Chapter 1: Submission Cover Sheet, Section 1.2."

3. Length Limits (Character Count)

- (1) Ensure that the manuscript does not exceed the page limit specified for the publication category (or the requested page count). For page limits by category, refer to "Submission Guidelines for Turbomachinery, Section 4: Classification and Definitions of Manuscripts."
- (2) The standard text volume per printed page is 1,554 characters (21 characters × 37 lines × 2 columns), including figures and tables.
- (3) As the first page includes the Title, Author Name(s), Author Photograph(s), etc., please use the following character count as a guideline.

Manuscript type	With abstract	Without abstract
Research Papers	693 characters (21 characters × 33 lines)	
Technical Reports	693 characters (21 characters × 33 lines)	903 characters (21 characters × 43 lines)
Perspective/Reviews	651 characters (21 characters × 31 lines)	903 characters (21 characters × 43 lines)
Others		1,071 characters (21 characters × 51 lines)

2-2 Abstract and Keywords

1. Abstract (English)

- (1) The abstract must be written in English and the length should be 200–300 words.
- (2) Refer to the table below to determine whether an abstract is required.

Manuscript type	
Research Papers	Mandatory
Technical Reports	Optional
Perspective/Reviews	
Others	Not required

2. Keywords

- (1) If an abstract is included, list no more than five English keywords. It is preferable to select at least one keyword from the list provided in section "(3) Keywords" below.

- (2) Capitalize the first letter of each keyword.

- (3) Keywords

Pumps, Compressors, Fans and blowers, Hydro turbines Storage pumps & pump turbines, Gas and steam turbines, Wind turbines, Propulsion, Fluid couplings and torque converters, Elements for fluid machinery and systems, Flow sensors and measurements, Vibrations and rotor dynamics, Jet technology, Fluid sealing and lubrication, Operation, monitoring, maintenance, cost & life evaluation, Pipelines and distribution systems, Design and manufacturing for fluid machinery and systems, Materials for fluid machinery and systems, Erosion, corrosion, and wear, Cavitation, condensation and two phase flows, New application of turbomachinery, Renewable energy, Mitigation of impact on environment & improvement of environment, Reduction of CO₂ emission, Energy Technology for Sustainable Development, Application of MEMS, Micro & nano fluid systems, General fluid and structural mechanics of fluid machinery

2-3 Main Text

1. Structure of the Manuscript

- (1) The following order is standard; however, authors are encouraged to select the format that most effectively presents their content.

- a. Introduction (Objective of the study, positioning of the paper through literature review, etc.)
- b. Nomenclature (List of symbols)
- c. Main Body (Theoretical analysis, experimental methods and results, interpretation and discussion of results, etc.)
- d. Conclusions
- e. References
- f. Appendices, etc.

- (2) Refer to the "Manuscript Template".

2. Numbering of Chapters, Sections, and Subsections

- (1) Number chapters, sections, and subsections as follows:

Chapter: 1., 2.

Section: 1-1, 2-1

Subsection: 1-1-1, 2-1-1 or (1), (2), (3).

Lower-level Headings: For headings below subsections, use circled numbers (e.g., ①, ②, ③) if necessary.

3. Writing Style

- (1) Descriptions should be as concise as possible.

4. Language

- (1) Manuscripts may be written in either Japanese or English.

- (2) For Japanese Manuscripts: Text should be written in a spoken style (kogo-tai), using standard Kanji and modern Hiragana usage. Foreign terms may be written in Katakana or English characters.

- (3) For English Manuscripts: The requirements listed in sections "1. Structure of the Manuscript" through "3. Writing Style" apply equally to manuscripts written in English.

5. Use of Company and Product Names in Journal Articles

(1) General Rule: With the exception of articles classified as "Product Introductions," authors must ensure that company and product names are not used in a manner that could be construed as advertising. Furthermore, using registered trademarks as generic terms may lead to infringement claims; authors should exercise caution.

(2) Book Reviews: For book reviews, while it is necessary to include the publisher's name, care must be taken to ensure the text does not become mere publicity.

(3) Reviewer Information: The name and affiliation of the book review author must be clearly stated at the end of the text.

Chapter 3 Handling of Figures and Tables

3-1 Reproduction

1. Figures (including photographs) will be reproduced exactly as submitted by the authors. The publisher does not redraw or correct figures.
2. If submitted figures are unclear or of low quality, the author will be requested to resubmit them.

3-2 Preparation of Figures and Tables

1. Language

(1) The language used in figures (including photographs) and tables must follow the specifications in the table below.

Manuscript type	Captions	Text in figures and tables
Research Papers		
Technical Reports	English	Principle: English
Perspective/Reviews		
Others	Either English or Japanese: Must be consistent throughout the manuscript	

2. In-text Citations

(1) Cite figures and tables in the text using the format "Fig. 1" and "Table 1".

3-3 Important Guidelines

1. General Requirements Figures and tables are crucial for the journal's structure and for enhancing reader comprehension. Please strictly observe the following points:

(1) Background: The background of figures must be white.

(2) Numbering: Number figures and tables consecutively throughout the article.

(3) Captions: Provide concise captions that accurately describe the content of each figure and table.

(4) Line Quality: Ensure that lines are sufficiently thick, clear, and free of blurring or faintness.

(5) Black and White Printing: Prepare figures with the understanding that they will be printed in black and white. Ensure that data is distinguishable without the use of color (e.g., by using different line types or markers).

Chapter 4 Units, Symbols, Fonts and Equations

4-1 Units and Quantity Symbols

1. Units and Quantity Symbols

- (1) All units used in the text are generally SI units (International System of Units).
- (2) Refer to JIS Z 8000-1 through JIS Z 8000-8 regarding the use of SI units.

2. Font Styles and Other Requirements

- (1) Symbols for physical quantities must be in italics. Symbols for units and chemical elements must be in Roman (upright) type.
- (2) For units used in figures and tables, provide conversion factors or methods where necessary.

4-2 Mathematical Symbols and Equations

1. Mathematical Symbols and Equations

- (1) Mathematical symbols must conform to JIS Z 8201. While variables in equations are generally italicized, functions and constants that represent mathematical operations or numbers rather than physical quantities (e.g., log, sin, cos, e, exp, and numerals) must be in Roman (upright) type. Apply formatting according to the rules described in the previous section.

Chapter 5: References

1. References should be listed at the end of the main text in consecutive numerical order (the order in which they are cited in the text). For research papers, English references must also be included.

2. Indicate citations in the main text by placing the corresponding number in parentheses as a superscript.

- (1) Example of a single citation:

Analysis of ... ⁽¹⁾

- (2) Example of multiple citations:

Example 1: Analysis of ... ⁽¹⁾⁻⁽³⁾

Example 2: Analysis of ... ^{(1)-(3), (7)}

3. Adhere to the following format for references.

< Journals >

- (1) Author(s), (2) Title, (3) Journal Name, (4) Vol.-No. (Year-Month), (5) Pages, (6) DOI

Example:

- (1) Inoue M. et al., Propagation of Multiple Short-Length-Scale Stall Cells in an Axial Compressor Rotor, Journal of Turbomachinery Trans. ASME, Vol.122(2000), 45, DOI: 10.1XXXX/tsj.XX.XX_XXX.

< Books > (1) Author (or Editor) Name, (2) Book Title, (3) Volume (omit if the work is a single volume), (4) (Year of Publication), (5) Pages, (6) Publisher.

Example:

- (2) King, R.J., Tobin, M.G., Flow in a Centrifugal Fan of the Squirrel-Cage Type, Trans. ASME, 112(1990), 84.

Note 1: Separate each item with a comma (,).

Note 2: If there are three or more authors, list the first author followed by "et al." (or the equivalent "and [number] others"). However, listing all authors is also permissible even if there are three or more.

Japanese References: List surnames only, separating authors with a centered dot (・).

Example: "Yamada・Tanaka", "Nakamura・et al."

English (Western) References: List the surname followed by initials, separated by a comma. Separate multiple authors with a comma (,).

Example: "Zimmerman, R., Harmon, H. A.", "Harmon, H. A., et al."

Note 3: Standard abbreviations for journal titles may be acceptable.

Note 4: Write the publication year and month according to the Western calendar. For books, the publication month may be omitted.

Note 5: For journals, indicate the starting page number (continuous pagination).

Chapter 6: Inquiries and Proofreading

1. Editorial Changes

Please note that the TSJ reserves the right to modify wording or terminology in manuscripts accepted for publication.

2. Author Proofs

Authors will receive page proofs for review. Please mark any necessary corrections and return the proofs by the specified deadline.

3. Restrictions on Corrections

Changes to the content, including additions or deletions of text, are not permitted during the proofreading stage. Therefore, authors must strictly observe the following points when preparing the manuscript:

(1) Ensure the manuscript is thoroughly polished before submission. (Corrections during the proofreading stage are strictly limited to typographical errors).

(2) Ensure that characters and symbols are clearly written. Add explanatory notes if necessary to avoid ambiguity.

4. The authors must be advised by TSJ regarding other issues on proofreading.