

Instructions for Authors

Frontiers of Mechanical Engineering is an international peer-reviewed academic journal sponsored by the Chinese Academy of Engineering, administered by Higher Education Press and Huazhong University of Science and Technology, and jointly published by Higher Education Press of China and Springer on a quarterly basis in English.

The journal publishes primarily research article and review article by following the peer-review system. Two reviewers are requested in the relevant study fields, and review feed-back will usually take about one month.

The most important things of the followings:

- 1. All figures and tables cited must have obtained the authorizations from the original papers or their publishers;**
- 2. Manuscripts should be in a **Word format** and **single column**;**
- 3. Equations must be input with MathType not the tool embedded in Word;**
- 4. Figures of high quality (over 300 dpi) are needed separately when the article is accepted;**
- 5. More than 20 references should be cited in the article, in which references published in recent two years must occupy higher than 20%.**

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REVIEW articles giving an in-depth overview of certain topic or a review of one's own work or work of a laboratory or a group of researchers;

FEATURE articles providing an overview on certain topic written by well known scientists in the field.

Manuscript preparation and submission requirements

Manuscript submission

Authors are encouraged to submit their papers electronically via the online submission system (<http://mc.manuscriptcentral.com/fome>). The web site guides authors stepwise through the creation and uploading of the various files. Note that original source files, *not PDF files*, are required. Once the submission files are uploaded, the system automatically generates an electronic (PDF) proof, which is then used for reviewing. All correspondence, including the editor's decision and request for revisions, will be by e-mail. After reviewing process, the manuscript will be finally judged by one of the editors who have the right to accept or reject a paper.

Submission requirements

Cover letter

A covering letter must accompany each submission indicating the name, address, and telephone number of the author to whom all correspondence is to be addressed. An affiliation must be supplied for each author. Authors are also asked to provide the names and contact information for four potential referees in their cover letter. However, the journal is not obliged to use the suggested reviewers. Final selection of reviewers will be determined by the editors.

Manuscript for research articles

Manuscripts should be in a **Word format** and **single column**. The following components are required for a complete manuscript: Title, Author(s), Author affiliation(s), Abstract, Keywords, Main text, Figures, Tables, Acknowledgements, References, Appendices and Notation (when needed). Include page numbers on the document, beginning with the title page as number 1. It will be preferred if line numbers are included as well. There is no formal limit for the length of a paper, but the editors may recommend condensation when appropriate.

Please use standard 10- or 12-point Times New Roman fonts.

Title. The title of the paper should be explicit, descriptive and as brief as possible—No more than 20 words in length.

Integrated control strategies for railway vehicles with
independently-driven wheel motors

Running title. A short version of the paper title (up to 80 characters including space).

Author names, (academic degrees) and affiliations.

Example: Jinzhi FENG, Jun LI, R. M. GOODALL

Corresponding author. The e-mail address of the corresponding author should be given on the first page of the manuscript. In the case of multiple authors, one should be designated as the corresponding author.

Abstract. A short abstract of up to 300 words written in one paragraph, clearly indicating the object and scope of the paper as well as the results achieved, should appear on the first page.

Keywords. Up to 6 words separated by commas.

Headings and subheadings. Headings and subheadings should be used throughout the text to divide the subject matter into its important, logical parts. Typical headings include: Introduction, Materials and methods, Results, Discussion, Conclusions, Acknowledgments, Appendixes and References.

Tables.

Table requirements

Authors should take notice of the limitations set by the size and layout of the journal. Large tables should be avoided. Reversing columns and rows will often reduce the dimensions of a table.

If many data are to be presented, an attempt should be made to divide them over two or more tables.

Table 1 Table title

sample	2/days	4/days	6/days
blank control	61.5	71.4	68.0
PLA	73.2	75.6	65.2
HA-PLA	54.4	78.6	62.4

Abbreviations. PLA: ; HA-PLA: .

1. Supply units of measure at the heads of the columns. Abbreviations that are used only in a table should be defined in the footnotes to that table.
2. Should always use rows and columns to correlate two variables. Submitted single-spaced and in the word processing software used. Do not embed tables as graphic files, document objects, or pictures.
3. Submitted as three-line tables, that is, there are three horizontal lines: one under the legend, one under the column heads, and one below the body. Vertical lines are generally not used.
4. Label each table at the top with a Roman numeral followed by the table title. Insert explanatory material and footnotes below the table. Designate footnotes using lowercase superscript letters (^{a, b, c}) reading horizontally across the table.
5. Unless needed, all the words within the tables should be in lowercases.
6. Must be sequentially numbered and called out in the text as, e.g. Table 1.
7. Each table should be typewritten on a separate page of the manuscript. Tables should never be included in the text.

Figures.

Graphs should be practically self-explanatory. Readers should be able to understand them at a glance. Dimensional drawings and diagrams should include only the essential details and as little lettering as possible. They should present more of a picture than a working drawing.

Figure requirements

1. **Size:** should be drawn in the size of they virtually appear.
2. **Numbering and title:** Number all figures (graphs, charts, photographs, and illustrations) in the order of their citation in the text and cited as, e.g. Fig. 1. Include a title for each figure (a brief phrase, preferably no longer than 10 to 15 words). Use (a), (b), (c)... to give titles for subfigures if there are any.
3. **Figure quality:** Should be sharp, noise-free, and of good contrast. All lettering should be large enough to permit legible reduction. The figure quality should meet the requirements as shown below:

Figure category	images		screen	Line-drawing
	color	mono		
dpi	300	600	72	600

Color of figures: Unless necessary, better drawn in black and white for line-drawing; and grayscale for images.

4. **Figure file formats and location in manuscript:** Should not be embedded in word processing documents but rather submitted in TIFF, EPS or CorelDraw file

formats. Legends should appear, separate from the figures themselves, where the figures should be located within the paper.

5. **Maps:** Please use the authorized maps as the basis for map figure drawing. (Like maps published by China Map Press, and the like.) Any maps drawn without an authorized basis have to be submitted with the certificate from the Surveying and Mapping management. All the maps should follow the publishing requirements released by the Government.
6. Unless needed, all the words within the figures should be in lowercases.

Formulae and equations.

1. Formulae should be typewritten in MathType whenever possible.
2. It is extremely important that all mathematical symbols and letters used are identified and listed and that the required style of appearance of such symbols is clearly indicated, e.g., bold face, italics, script, outline, etc.
3. Subscripts and superscripts should be set off clearly.
4. Identify in the margin any symbols that might be confused with similar symbols.
5. The words Equation or Equations should appear in full at the beginning of sentences but be abbreviated to Eq. or Eqs. elsewhere.
6. A nomenclature can be included (with the use of = signs) after the abstract if there is a significant number of symbols in the paper.

Equations should be located separately from other lines if they are long or complicated.

Abbreviations

Do not use abbreviations in the title or abstract and limit their use in the text. Expand all abbreviations at first mention in the text.

Footnotes

Footnotes should only be used if absolutely essential. In most cases it will be possible to incorporate the information in normal text. If used, they should be numbered in the text, indicated by superscript numbers, and kept as short as possible.

Units of measure

Laboratory values are expressed using conventional units of measure, with relevant Système International (SI) conversion factors expressed secondarily (in parentheses) only at first mention. In tables and figures, a conversion factor to SI should be presented in the footnote or legend. The metric system is preferred for the expression

of length, area, mass, and volume. For more details, see the Units of Measure conversion table (absent).

Acknowledgements

The Acknowledgements section is the general term for the list of sponsor and financial support, contributions, credits, and other information included at the end of the text of a manuscript but before the references. Conflicts of interest and financial disclosures must be listed in this section. Authors should obtain written permission to include the names of individuals in the Acknowledgements section.

Appendixes (if needed)

Appendix A

A1, A2, A3...

Appendix B

Appendix C...

Manuscript for review articles

Reviews give a general overview of a particular field, providing the reader with an appreciation of the importance of the work, historical context, a summary of recent developments, and a starting point in the specialist literature. Manuscripts should be divided into appropriate sections, with an extensive list of references. In addition to undergoing the same rigorous level of technical peer-review as Research papers, Review articles will be critiqued based on the general impact of the field being reviewed, the relevance of the field to experimental mechanics, preexisting reviews of the field, and acknowledgement of the contributing author as a dominant figure in the field. Therefore, it is strongly recommended that authors interested in submitting a Review article correspond with the Editor prior to submission. General formatting text, illustrations, and references are the same as outlined for research papers.

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In-text citations must agree with the references in numbering. The references should be presented completely and without mistakes, and should be the original publication. Detailed format requirement can be found in the file “Format for references.doc”.

Reference for journals

Man Z, Wang W, Khoo S, et al. Optimal sinusoidal modeling of gear mesh vibration signals for gear diagnosis and prognosis. *Mechanical Systems and Signal Processing*, 2012, 33: 256–274

Lv Z, Zhang W, Xu J. A denoising method based singular spectrum and its application in machine fault diagnosis. *Chinese Journal of Mechanical Engineering*, 1999, 35(3): 85–88

Reference for books

Gaydon A G, Wolfhard H G. *Flames*. 2nd ed. London: Chapman and Hall Ltd, 1960, 30–35

Norman I J, Redfern S J, eds. *Mental Health Care for Elderly People*. New York: Churchill Livingstone, 1996

Reference for proceedings

Dmitriev V. Complete tables of the second rank constitutive tensors for linear homogeneous bianisotropic media described by point magnetic groups of symmetry and some general properties of the media. In: *Proceedings of IEEE MTT-S IMOC'99*. Berlin: Springer, 2000, 435–439

Cecil T E, Chern S S. Dupin submanifolds in Lie sphere geometry. In: Jiang B J, Peng C K, Hou Z X, et al., eds. *Differential Geometry and Topology*. Lect Notes in Math, Vol 1369. Berlin: Springer-Verlag, 1989, 1–44

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Division of Natural Science Academic Publishing, Higher Education Press, No. 4 Huixindongjie, Beijing 100029, China

E-mail: guott@hep.com.cn (Tingting GUO)

Tel: 86-10-58581834 Fax: 86-10-58556034



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