JOURNAL OF SOUND AND VIBRATION

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DESCRIPTION

The *Journal of Sound and Vibration* (JSV) is an independent journal devoted to the prompt publication of original papers, both theoretical and experimental, that provide new information on any aspect of sound or vibration. There is an emphasis on fundamental work that has potential for practical application.

*JSV* was founded and operates on the premise that the subject of sound and vibration requires a journal that publishes papers of a high technical standard across the various subdisciplines, thus facilitating awareness of techniques and discoveries in one area that may be applicable in others. For more detail on subject categories represented in *JSV*, visit *JSV* categories.

Benefits to authors

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Please see our Guide for Authors for information on article submission. If you require any further information or help, please visit our Support Center.

Rapid Communications

*JSV* encourage Rapid Communications and to this end one referee is sought to prepare a report on each manuscript. Referees are requested to keep to a strict timeline and in order to fast track these manuscripts a second opinion is sought from either the Editor-in-Chief, or one of the Receiving Editors, after which authors are notified of a decision.

IMPACT FACTOR

2018: 3.123 © Clarivate Analytics Journal Citation Reports 2019
ABSTRACTING AND INDEXING

Cambridge Scientific Abstracts
Current Contents - Engineering, Technology & Applied Sciences
EBSCOhost
Engineering Index Monthly
EI Compendex
Fuel and Energy Abstracts
Gale Academic OneFile
Gale Infotrac Custom
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AMS MathSciNet
Applied Mechanics Reviews

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Contact the Journal
M Howls

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GUIDE FOR AUTHORS

Types of contribution
Original full length articles, review articles, rapid communications, discussions of previously published articles in JSV and commentaries in response to discussions, book reviews and Virtual Special Issue papers. Authors are advised that papers whose contribution is not concerned with fundamental issues in sound and vibration are not normally accepted; such material should be directed to more appropriate publications.

Papers published in JSV should contain new results, of potentially wider application than the specific situation reported; otherwise they should contain new insights of value to the acoustics and vibration community (for example by synthesizing material from traditionally separate fields), or provide authoritative reviews of progress in a defined area. Each paper submitted for publication is normally subject to review and criticism by two independent, anonymous referees, and authors are provided with copies of these reviews so that they can make revisions and improvements to their manuscripts before publication. For more information about how the peer review process is conducted for this journal, please take a look at the 'Peer review policy statement' here The normal time limit for the submission of an author's revised manuscript is three months; revised manuscripts received after this time may be considered as new submissions and subject to full re-review.

Authors should aim to produce a manuscript that can be reviewed on its own, without assuming that earlier or later parts will be published. The Editors strongly encourage authors considering the submission of multiple papers (eg: Part I, Part II, etc.) to instead combine them into one paper - in such cases this is a common recommendation of the reviewer(s). Alternatively, authors may choose to submit the respective parts sequentially, once the outcome of the review of the earlier manuscript is known. Authors in any doubt should contact the editor to whom the submission will be made.

Discussion Comments, of either a specific or a general nature, on work previously published in JSV should be submitted as Discussion items. A discussion should contain a maximum of 10 journal pages, including any figures. Discussion items do not require an abstract. Should the Discussion item be accepted, JSV policy is that the authors of the original article will be offered the opportunity to submit a response to the Discussion in the form of a Commentary. The timescale for authors to submit a response, to ensure publication within the same issue, is approximately 4-6 weeks.

Review Articles The Editors wish to encourage publication of scholarly review articles in the Journal. Review articles are typically 20-40 journal pages in length (about 20,000 words), and may focus on any area of sound or vibration likely to interest JSV readers. They may be relatively broad in scope - thereby serving a tutorial function - or quite specialized, aimed at researchers in the chosen field. Before submitting a review article please contact the Editor-in-Chief with an outline of the proposed manuscript. The proposal should include: List of authors, with credentials that show their standing in the field; A summary of the paper (max A4); Contents of the paper

If the Editor-in-Chief approves an outline please ensure that you make a note of this in the cover letter and/or submission details when you submit your manuscript.

Rapid Communications in the JSV are short papers addressing fundamentally new ideas, novel experimental observations or formulation of new challenging problems. Fast turn-around times are one of the key benefits of Rapid Communications providing a competitive advantage to authors.

Purpose: Rapid Communications are publications, up to four pages in size, and reporting a result likely of impact on the future research in the respective field. Authors are encouraged to submit an extended version of the paper at a later stage.
Scope: Different from full research papers, it does not need to cover either detailed background information or a comprehensive evaluation. Instead, the focus is on quick publication of preliminary results and thoughts that are related to: Fundamentally new ideas, not yet fully proven Novel and Intriguing experimental observations Formulation of new problems of fundamental importance to the field of sound and vibration and/or its application in the emerging industries
Acceptance: The work reported needs to be novel and advancing the state of the art. Papers will be handled by the EiC or one of the Deputy EiCs, who will base their decision on one review. Referees are requested to keep to a strict timeline in order to fast track these manuscripts.

Format: Short Communications are limited to 2500 words (approx. 4 pages, a figure counts as 200 words) and should have no more than 10 references.

Review Guidelines: Review time will be short, ideally less than four weeks. A decision for acceptance or rejection will be made after the first round, with the option to make minor revisions. The decision is primarily based on (i) novelty, (ii) technical soundness, (iii) expected impact on the state-of-the-art and (iv) overall presentation and readability.

Machine Learning Papers
In the last few years, JSV has been receiving a large number of papers relating to machine learning or 'soft computing' applied in a mechanical systems context. Many of these papers are rejected without review as they do not conform to the standards required of a JSV paper. Please click here for further information.

Book Reviews
Book reviews are by invitation only. Books for review should be submitted to the Book Review Editor Dr Jen Muggleton (Tel: +44 23 8059 59 7624, Email jmm@isvr.soton.ac.uk) c/o Journal of Sound and Vibration Office, Room 4001, Building 13, Institute of Sound and Vibration Research, University of Southampton, Southampton, SO17 1BJ, UK., (Fax: +44 23 8059 3190)

Virtual Special Issues (VSI)
Nominated Guest Editors will need to submit an outline proposal to Professor Andrei Metrikine (A.Metrikine@tudelft.nl) giving some background to a suggested Virtual Special Issue (VSI) plus the theme of the issue. There are two types of VSI available:

Curated VSI - A selection of up to 12 papers can be selected from past publications in the journal. These will appear on-line only. Papers retain their original DOI and are not re-printed.

New Work VSI - Up to 12 manuscripts describing new work can be submitted to the journal within an agreed theme. Manuscripts are subject to our usual peer review process. Accepted manuscripts will appear together on-line and will also appear in the printed journal.

Conference Proceedings
JSV will be delighted to consider content which has been part of a conference before, and this will be peer reviewed in the same way as standard content. The submitting author is required to declare this at the moment of submission. Submission will also assume that the author has requested and received permission from the conference to publish the content again-no matter the amount of alteration-and that no submission will be made to JSV without this permission having been received. In the case that the permission is not granted, the author will not submit the paper to JSV under any circumstances. The author will also not submit papers to JSV for which they are currently seeking permission from the relevant conference. Should a paper be found to be in breach of copyright subsequent to publication, this paper will be retracted at the discretion of the publisher.

Submission checklist
You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

One author has been designated as the corresponding author with contact details:
- E-mail address
- Full postal address

All necessary files have been uploaded:

Manuscript:
- Include keywords
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- All tables (including titles, description, footnotes)
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Further considerations
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• A competing interests statement is provided, even if the authors have no competing interests to declare
• Journal policies detailed in this guide have been reviewed
• Referee suggestions and contact details provided, based on journal requirements

For further information, visit our Support Center.

BEFORE YOU BEGIN

Ethics in publishing
Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Policy and ethics
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Please note that the Journal of Sound and Vibration does operate a pre-screening process. Your manuscript, once submitted, will be checked by:

Assistant Editor - checks for clarity, statement of novelty, format, similarity index. Receiving Editor - decides whether the manuscript is potentially publishable, and will either:

Reject without review as being out of scope, insufficiently original, incremental or linked to a submission under consideration or
Assign to an appropriate Subject Editor if the manuscript is possibly publishable.

Subject Editor - handles potentially publishable manuscripts by means of sending to reviewers and making a decision based on the reviewers' comments. They may also reject manuscripts without review in consultation with the Editor-in-Chief, Receiving Editor or Advisors to JSV.

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Please submit the names and institutional e-mail addresses of several potential referees. For more details, visit our Support site. Note that the editor retains the sole right to decide whether or not the suggested reviewers are used.

Additional Information
Authors may select a section heading when submitting their manuscript. If the manuscript is accepted for publication, the Editors will allocate it to the most suitable category, which may be the same or different to the one chosen by the author during submission.

Each manuscript must be accompanied by a cover letter outlining the basic findings of the paper and their significance.

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PREPARATION
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This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. More information on types of peer review.

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Editors reserve the right to adjust style to certain standards of uniformity. For the main text (including Abstract), a minimum font size of 11 pt and a minimum line spacing of 18 pt are appropriate. Authors should adopt a consistent hierarchy of headings to assist the typesetter; this can be done in LaTeX using Elsevier's document class 'elsarticle'. Authors using other software should try to follow JSV style, as far as is reasonably possible.

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**Article structure**

**Subdivision - numbered sections**
Divide your article into clearly defined and numbered sections. The abstract is not to be included in section numbering; the Introduction should not be split into sub-sections. Subsections thereafter should be numbered as 2.1 (then 2.1.1, 2.1.2, ...), 2.2, etc. Use this numbering also for internal cross-referencing: do not just refer to "the text". Any subsection may be given a brief heading. Each heading should appear on its own separate line. All sections and subsections should be numbered using Arabic numerals.

**Introduction**
The introduction sets the tone for the rest of the paper and is therefore very important. It should state the problem in enough detail to maintain and develop the reader's interest. The introduction is also the place to say why the problem is hard and also why it has not been solved before, or it should explain what is deficient about solutions that have previously been proposed. The introduction should contain a sufficiently inclusive and comprehensive literature review to confirm that the new work proposed is properly placed in context, and the literature search should go back as far as possible in order to capture all the really relevant past work. The introduction should conclude with a statement of sufficient depth and clarity that confirms the key components of the approach taken, the importance of the results obtained, and the novelty of the work as a whole.

1. Clearly set out the objectives of the paper and provide an adequate background, avoiding a detailed literature survey or a summary of the results.
2. Make clear what new contribution the present paper offers relative to existing published work.
3. If appropriate, give a brief outline of the structure of the rest of the paper.

**Equations**
Equations should be referred to as Eq. (1), Eq. (2) etc.

**Conclusions**
The main conclusions of the paper should be presented in a conclusions section, which should not form a subsection of the discussion or results, but should stand alone.

The Conclusions should:
1. Give a summary of the problem considered and the results obtained.
2. It may also stress the importance of the paper's findings.
3. It is not JSV style to discuss possible future work in depth in the Conclusions but a short statement of intentions can be given if this is felt to be appropriate.

**Appendices**
If an appendix is required the order at the end of the article should be: Conclusion, Acknowledgement, Appendix, References. If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.
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Highlights

Highlights are optional yet highly encouraged for this journal, as they increase the discoverability of your article via search engines. They consist of a short collection of bullet points that capture the novel results of your research as well as new methods that were used during the study (if any). Please have a look at the examples here: example Highlights.

Highlights should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point).

Abstract

A concise and factual abstract is required in one single paragraph. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided but if essential full publication details should be given. Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself. In general an abstract should state the problem, and then explain the approach to obtaining the solution, and then describe the solution itself. It should also summarise key facts relating to the work done, the principal conclusions, and it should convey the overall impact of the work presented. The abstract should be as intelligible to the widest range of technically literate readers possible. Reference citations, figures and tables should not be included in the abstract.

Graphical abstract

Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site. Authors can make use of Elsevier's Illustration Services to ensure the best presentation of their images and in accordance with all technical requirements.

Keywords

Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.
**Abbreviations**
Abbreviations that appear in the abstract and the body of the text should be defined when they first appear. Ensure consistency of abbreviations throughout the article.

**Acknowledgements**
Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.) Funding sources may be acknowledged here, as well as individuals who provided help during the research and writing stages of the work.

**Formatting of funding sources**
List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

**Nomenclature and Units**
Units:
The international system of units (SI) should be used as far as possible. When quantities are expressed in other units, give their equivalent in SI. For unit symbols, follow standard SI conventions. Thus Roman (normal upright) type is used, with spaces after the number. Spaces also separate unit symbols that are to be multiplied, e.g. 5 N m. Superscript powers, e.g. 30 mm$^2$s$^{-1}$, are preferred (rather than 30 mm$^2$/s).

Symbols:
Letter characters should be limited to the Latin and Greek alphabets. Authors wishing to present a table of nomenclature should do so on the second page of their manuscript. The following order should be used within this table: Latin characters should appear first, arranged a, A, b, B etc.; then Greek characters, similarly arranged; sub/superscripts, abbreviations, special functions etc. usually come as a separate final group. More detailed guidance is available here.

**Math Formulae**
Mathematics is printed using Latin or Greek symbols. Formatting conventions used in JSV are listed below. In order to assist the copyeditors and typesetters as far as possible, authors are kindly asked to ensure that the mathematical symbols used in the final version of their manuscript sent for typesetting follow JSV conventions. The Editors may request corrections of this nature before the manuscript can be accepted.

For additional guidance and examples, refer to STYLE or to any recent issue of JSV.

- **Use Roman (normal upright) type for**: Total differential operators (e.g. d in differential); i or j (square root of -1); exp or e (base of natural logarithms); Re or Im (real or imaginary part); log, ln, sin, cos, etc.; abbreviations such as c.c. (complex conjugate); multiletter symbols (e.g. TL for transmission loss); subscripts of two or more letters identifiable as words or word-abbreviations (e.g., Apipe, fmax)
- **Use italic (sloping) type for**: all scalar quantities represented by a single letter symbol (Latin-alphabet), except where noted above;
- **Use upright bold for**: vectors, matrices and tensors;
- **Script (calligraphic) font may be used for operators, or for variables where the standard form of a Latin character has already been used;**
• words like “where” or “with” following equations and explaining the notation used, should not begin with capital letters.

**Figures**

When preparing Figures, authors are reminded that the lettering and symbols, as well as other details, should have proportionate dimensions, so as not to become illegible or unclear after possible reduction. Fonts smaller than 11 pt (or subscripts smaller than 8 pt) should be avoided. Typically, a reduction factor of two to three will be applied. The degree of reduction will be determined by the Publisher. Illustrations will not generally be enlarged.

It will often be helpful to consider the page format of the journal when designing the layout of Figures. Gridlines should be avoided when constructing graphs.

Ensure that each figure has a caption. Multipart figures require a single caption that describes all the parts (see example). Each figure and table file should be uploaded with an editable text caption (including figure/table number) attached, unless such captions already appear in the main text with figures/tables embedded.

Captions should contain sufficient information to allow the reader to interpret the figure, including any legends/keys not already described in the figure itself. No titles should appear above or below the figure; use the caption for this purpose.

Where an author has chosen to split a figure into a number of parts, each part should be clearly labelled with a lower case letter (a), (b),.... The caption should be a single paragraph below the figure, mentioning each part of the figure in turn.

Authors are required to embed figures and captions throughout the text of their manuscript, at the appropriate points, to aid the Editors and referees during the peer-review process.

In the case of colour figures, there are two options open to authors: (1) Separate figure files are uploaded for (a) the online paper version (colour allowed at no cost), and (b) the print version (black and white figures required). This is the preferred option.

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