DESCRIPTION

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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.

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.

JSV welcomes papers in the following subject areas:
A. Active and adaptive control of sound and vibration: Analysis, design, smart structures and materials
B. Passive control of sound and vibration: Damping processes, design optimization, meta-materials, materials for optimum damping
C. Measurement techniques and hardware; transducers with sound/vibration as input or as output
D. Inverse problems in acoustics and vibration (linear); techniques for source or system identification; statistical methods
E. Engineering sources of noise and vibration (including combustion, high-speed flow, aeroacoustic or aeroelastic instabilities, and fluid machinery)
F. Structural vibration/elastic wave propagation (including fluid-loaded structures, piezoelectric materials, and granular media); Numerical modelling or physical experiments; dynamics of nano-systems*
G. Acoustics/vibroacoustics (including sound propagation in the atmosphere and ocean, structure-acoustic coupling, flow ducts, and porous materials): Numerical modelling or physical experiments
H. High-frequency approximations for wave propagation or multimode system response: Ray methods, SEA, power flow, semiclassical refinements; probabilistic descriptions of complex systems
I. Nonlinear aspects of sound and vibration; dynamical systems applications; perturbation methods; nonlinear impact dynamics, damage, fatigue and transient loads**
J. Analytical methods and modeling for linear vibration and acoustics; benchmark solutions
K. Signal processing for sound and vibration applications, including source/system identification and active control; data reduction and filtering
M. Human and biologically-related issues in sound and vibration, including human and human-induced vibrations, effects of sound and vibration on, or caused by, other living organisms***
N. Multiphysics

*Category F — Guidance Notes:
It is now part of JSV editorial policy not to consider submissions that predict the dynamics of nano-systems based on the continuum theories unless a comparison is included with either molecular simulations or experiments

** Category I — Guidance Notes:
It is now part of formalised JSV editorial policy not to publish papers whose original contribution is solely in the mathematical treatment of a system of ODEs of motion, unless the method of solution is demonstrable shown (a) to be novel and superior to existing methods or (b) to be applicable to significant physical problems in such a way that it clearly and unambiguously engenders new insights

*** Category M — Guidance Notes: In all cases submissions should address the physics of the phenomena through appropriately advanced theoretical approaches or by experimental investigations. Submissions based on experimental work should give new insight into the physics of the system dynamics, for example by including comparison with predictions from models or numerical simulations Areas of interest: whole body vibration, hand-arm vibration, human-structure interaction, dynamic interaction with structures, seats, hand tools, etc., sound production, auditory system Outside of scope: empirical studies

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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.

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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.

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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.

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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.

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