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### DESCRIPTION

Since its launch in 1968, *Applied Acoustics* has been publishing high quality research papers providing state-of-the-art coverage of research findings for engineers and scientists involved in **applications** of **acoustics** in the widest sense.

*Applied Acoustics* looks not only at recent developments in the understanding of acoustics but also at ways of exploiting that understanding. The Journal aims to encourage the exchange of practical experience through publication and in so doing creates a fund of technological information that can be used for solving related problems. The presentation of information in graphical or tabular form is especially encouraged. If a report of a mathematical development is a necessary part of a paper it is important to ensure that it is there only as an integral part of a practical solution to a problem and is supported by data. *Applied Acoustics* encourages the exchange of practical experience in the following ways: • Complete Papers • Short Technical Notes • Review Articles; and thereby provides a wealth of technological information that can be used to solve related problems.

Manuscripts that address all fields of **applications of acoustics** ranging from medicine and NDT to the environment and buildings are welcome.

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### AUDIENCE

Acousticians, design and consulting engineers, architects, building scientists, noise control engineers.

### IMPACT FACTOR

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## ABSTRACTING AND INDEXING

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Applied Mechanics Reviews  
Current Contents/Engineering, Computing & Technology  
Scopus  
Cambridge Scientific Abstracts  
EBSCOhost  
Engineering Index Monthly  
Ei Compendex  
Gale Academic OneFile  
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## GUIDE FOR AUTHORS

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### *Your Paper Your Way*

We now differentiate between the requirements for new and revised submissions. You may choose to submit your manuscript as a single Word or PDF file to be used in the refereeing process. Only when your paper is at the revision stage, will you be requested to put your paper in to a 'correct format' for acceptance and provide the items required for the publication of your article.

**To find out more, please visit the Preparation section below.**

### INTRODUCTION

*Applied Acoustics* is concerned with application of acoustics in its widest sense. It is intended for engineers and scientists concerned with the design of buildings with active and passive noise control and with structural and computational acoustics and vibration. It aims to present the current understanding of the acoustics and acoustical devices in applications ranging from musical instruments to sound propagation through the atmosphere and underwater, and to convey methods of exploiting that understanding.

In addition the journal aims to encourage the exchange of practical experience, whether in the form of a complete paper, short technical note or letter, and in so doing to create a fund of technological information that can be used for solving related problems. The presentation of information in graphical or tabular form is especially encouraged.

Where mathematical or numerical developments are necessary, it is important to ensure that they are there only as an integral part of a practical solution to a problem. It should be noted that the journal does not normally publish papers of a purely theoretical or numerical nature, or that contain extensive mathematical or numerical developments, unless, at least, they include also reference to a pertinent practical acoustical problem or are offered as a tutorial on a method for solving an explicit problem in acoustics or vibration. Preferably, all submitted theoretical or numerical developments should be accompanied by experimental validation.

Special Issues devoted to papers concerning a particular field of acoustics or vibration are a regular feature of the journal. Authors who would be interested in compiling a special issue and acting as guest Editors for this issue should consult the Special Issue sub-topic in this guide and contact the appropriate Associate Editor.

### *Types of articles*

#### **Article Types different from standard Full Research Article:**

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A Technical Note is generally used for an article that does not present a major new approach/fundamental development or major new findings, but a modification or combination of existing techniques that nevertheless produces new results that are of importance to the application of the techniques. The article in such a case should therefore focus on the presentation of the results, and should only have a short description of the technique or approach. Alternatively, a Technical Note can also be used to present a newly developed method, but the validation and/or data analysis are of limited scope and not comprehensive or systematic enough to qualify as a full research study. In both cases the length of the article is expected to be significantly shorter than a full research paper. We do not impose a firm page limit on a Technical Note, but would expect it to be around 6 published pages long.

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The purpose of a Letter to Editor is to remark on a paper or material that was published before in the journal, or to raise an issue that is relevant to the readers of the journal. In both cases it should not be more than 2-3 pages long.

##### **Review Article (Invited):**

A review article is expected to contain a comprehensive review of all key literature on a specific topic area, an appraisal of the current state of the art, and from which a well development argument for future research directions in that area. Review articles are only considered on invitation by one of the Editors. Please contact the journal prior to submitting a Review article.

## Scientific Content Requirements specific to Applied Acoustics

### Theoretical papers:

It should be noted that the journal does not normally publish papers of a purely theoretical or numerical nature, or that contain extensive mathematical or numerical developments, unless, at least, they demonstrate significant relevance to solving a pertinent practical acoustical problem or are offered as a tutorial on a method for solving an explicit problem in acoustics or vibration. In most cases, all submitted theoretical or numerical developments should be accompanied by suitable validation, preferably by laboratory or site measurements. Simulation on its own is generally not enough to demonstrate the "applied" aspect of the work.

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An article that simply applies a well established numerical method to study an acoustic problem does not on its own justify publication in the journal. For it to be acceptable, it must contain sufficient contributions that advance the knowledge of the method itself or the acoustic problem that it is applied to. These could, for examples, come from: New developments in either the method or the procedure to apply the method that are required to overcome significant obstacles in order to obtain a satisfactory solution to the acoustic problem. Findings that points to new and fundamental understanding of the acoustic problem and its solution and underlying mechanisms that applies to the acoustic problem in general rather than just the specific cases or design modifications studied in the article.

In addition, articles of this type should always contain validation against appropriate sources, preferably experiment results, on the key features of the numerical solution. For example, if optimisation of a design is involved, then the result of the optimisation, and not just a basic configuration before the optimisation, should be validated preferably by laboratory or site measurements.

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#### Manuscript Grading

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- Journal policies detailed in this guide have been reviewed
- Referee suggestions and contact details provided, based on journal requirements

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## BEFORE YOU BEGIN

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Results should be clear and concise.

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This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

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The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

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Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

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