

Call for papers

Special issue on the topic of

Benchmarking Problems and Datasets in Acoustics

In *Acta Acustica*

(Journal of the European Acoustics Association)

Guest editors

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Background

Analytical, numerical, and experimental techniques can be used to find solutions to partial differential equations (PDEs) that describe acoustic problems. Within arbitrary domains and for arbitrary initial and boundary conditions, all solution techniques require certain assumptions and simplifications. Due to the lack of a standard process for quantifying and reporting the performance of the solution technique, a variety of methods exist for discussing the results with the scientific community. Moreover, the absence of benchmark cases and reference results hampers the validation and acceptance of newly developed techniques.

Scope

The scope is to extend the existing database with valuable references. A topical issue titled “Benchmarking Problems and Datasets in Acoustics” will be published in *Acta Acustica*, the Journal of the European Acoustics Association, in 2025. The Editors of the topical issue will invite a limited number of presenters at Forum Acusticum Euronoise 2025 to submit a paper, based on the impact and novelty of their presentation and conference papers. Authors will be invited to submit all types of articles. They will be particularly encouraged to make the data or code that support the findings of this study publicly available on the [EAA TCCA Zenodo homepage](#). Note: When submitting the benchmark data to the Zenodo homepage, please select ‘EAA Computational Acoustics’ as the community, or contact stefan.schoder@tugraz.at for assistance.

Note that, starting January 1, 2025, *Acta Acustica* is a fully Diamond Open Access journal. The journal is free for readers and authors, meaning that authors do not incur any article processing charges to publish in it.

Submissions

All kinds of relevant papers will be considered and reviewed by a distinguished team of international experts, including full-length original research articles, reviews, letters, and technical briefs that address the gap in missing benchmark examples in the modelling of acoustics effects, particularly in computational acoustics.

The article submission deadline is **February 20, 2026**. The manuscripts will be handled on a rolling basis. Submissions should be in LaTeX, and a template is provided, see <https://acta-acustica.edpsciences.org/author-information/instructions-for-authors>.

Guidelines for submitting an extended conference paper to Acta Acustica:

- The submission needs to be significantly extended from the original conference paper, with additional material included and an extended literature review, to reach a typical length of 8-12 pages (final typeset length).
- When submitting your contribution, please choose the category *Special Issue: Benchmarking Acoustics*.
- The extended conference paper needs to be a strong research article with a broader scope and interest than the conference presentation.
- The authors should indicate that their contribution is an improvement or extension of their previously published conference paper. The conference paper should be cited in the reference list and throughout the research article.
- The journal's standard peer review process will apply.

Abstract submission is optional and will allow you to receive early feedback from the Guest Editors on whether your article is in the scope of the special issue. Please email your abstracts directly to the Guest Editors at the email addresses above.

Manuscripts can be submitted online via the submission and peer-review site of Acta Acustica. Register by choosing the title of the special issue. Please find further instructions for authors at <https://acta-acustica.edpsciences.org/author-information/instructions-for-authors>.