



# Journal of the AUDIO ENGINEERING SOCIETY

## CALL for PAPERS SPECIAL ISSUE



### NEW FRONTIERS IN DIGITAL AUDIO EFFECTS

We are pleased to invite contributions to this special issue on New Frontiers in Digital Audio Effects to appear in the *Journal of the Audio Engineering Society* (<http://www.aes.org/journal/>).

Recent years have seen great advancements in the field of digital audio effects and music processing due to the introduction of advanced numerical methods, neural computing, and machine learning. Although significant advancements have been achieved, the field continues to encounter substantial challenges. This special issue is dedicated to presenting recent methodological and technological developments, critically examining prevailing limitations, and outlining prospective trajectories for future research and application.

We welcome original research papers and review articles on, but not restricted to, the topics listed below:

- Capture, analysis, and audio restoration
- Representation, transformation, and modelling
- Transmission and resynthesis
- Digital audio effects and manipulation
- Perception, psychoacoustics, and evaluation
- Spatial sound analysis, estimation, coding, and synthesis
- Source separation
- Physical modeling, virtual acoustic, and analog models
- Sound synthesis, composition, and sonification
- Hardware and software design
- Music information retrieval
- Sound for virtual and augmented reality and multisensoriality
- Interface design, user experience, usability, and accessibility
- Deep learning for digital audio effects

Submissions will be judged based on their academic quality, novelty, and relevance to the topic of digital audio effects.

Authors of excellent contributions to relevant conferences, such as the 28th International Conference on Digital Audio Effects (DAFx25 - Ancona, Italy), will also be invited to submit an extended version of their paper to this Special Issue.

#### GUEST EDITORS

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### AUTHOR GUIDELINES

We welcome original research and review papers, as well as revised and expanded versions of conference papers addressing the theme of this special issue. Please follow the Author Guidelines available at <http://www.aes.org/journal/authors/guidelines/>. Papers should be submitted online at <http://www.aes.org/journal/submit/>. When submitting a manuscript, please choose the category “Special Issue (New Frontiers of Digital Audio Effects)” rather than Research Paper, Engineering Report, or Review Paper. All submissions will be peer-reviewed according to standard JAES review procedures. JAES offers its authors an open access (OA) publishing option.

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