



Duct Acoustics

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Message from the Guest Editors

This Special Issue aims to highlight the state of the art in duct acoustics by collecting research on the most relevant issues in the present and future applications of this topic.

The authors are invited to present research that underscores the significance of investigating duct acoustics for various applications involving ducted systems, and of developing effective strategies to minimize noise transmission. This Special Issue aims to emphasize the crucial role of duct acoustics in enhancing noise control, leading to improved operational efficiency, reduced acoustic pollution, and enhanced overall system performance. Understanding duct acoustics is vital for creating quieter and more efficient ducted systems across diverse industries and applications.

Topics of interest may include (but are not limited to) the following:

Numerical methods for acoustic systems simulation.

Acoustic design and optimization of acoustic systems.

Experimental procedures.

New methods for acoustic efficiency evaluation.

Metamaterials.

Passive noise control.

Active noise control.

Noise control of exhaust systems.

Pulsation analysis and control of oil and gas pipeline systems.

Real-time digital twin.

