

Session Program

8–12 Sept 2026

Forum Acusticum 2026

A12.02 Data-driven methods in acoustics and vibration

Thursday 10 September

14:20

A12.02 Data-driven methods in acoustics and vibration: S082

Session | Location: Messe Congress Graz, Galerie B | Conveners: Marcus Maeder, Elias Zea

14:20–14:40

Generalization of Deep Reinforcement Learning for the Design of Broadband Bandgap Structures

Speaker

Semere B. Gebrekidan

14:40–15:00

Data-Driven Equation Discovery in Weakly Nonlinear Sound Beams

Speaker

Tereza Filipská

15:00–15:20

Data-driven Dynamical Energy Analysis for modelling high-frequency noise and vibration

Speaker

David Chappell

15:20–15:40

Data-driven modeling of strong acoustic fields in piston-driven resonators with boundary layer losses

Speaker

Víktor Hruška

15:40–16:00

Structural Intensity Estimation from Noisy Plate Vibration Measurements Using Physics-Informed Neural Operators

Speaker

Johannes D. Schmid

16:00