

Session Program

8–12 Sept 2026

Forum Acusticum 2026

A12.01 Numerical methods for acoustics and vibration

Wednesday 9 September

16:20

A12.01 Numerical methods for acoustics and vibration: S081

Session | Location: Messe Congress Graz, Saal 3 | Conveners: Dionysios Panagiotopoulos, Maarten Hornikx, Stefan Schoder

16:20–16:40

Acoustic Scattering from a Moving Object Driven by a Moving Emitter Using Time-Dependent Physical Optics

Speaker

Asaf Kor

16:40–17:00

High-Performance 3D Wave-Based Modelling of Outdoor Acoustic Propagation

Speaker

Gustav Eriksson

17:00–17:20

Identifying moving acoustic sources in the wavenumber frequency domain

Speaker

Holger Waubke

17:20–17:40

CRUNA – An Open-Source Finite-Difference Time-Domain Simulation and Optimization Framework based on Adjoint Gradients

Speaker

Arne Birk Hölter

17:40–18:00

Irrotational Acoustic Displacement Formulation for Fully Coupled Elastoacoustics

Speaker

Jie Deng

18:00

Thursday 10 September

09:00

A12.01 Numerical methods for acoustics and vibration: P493

Session | **Location:** Messe Congress Graz, Messehalle (Poster+Exhibition) | **Conveners:**
Dionysios Panagiotopoulos, Maarten Hornikx, Stefan Schoder

09:00–12:00

Effects of vibration fatigue on mechanical parameters of representative numerical models of painted wooden heritage objects

Speaker

Jason Caubrière

12:00

09:20

A12.01 Numerical methods for acoustics and vibration: S307

Session | **Location:** Messe Congress Graz, Galerie B | **Conveners:** Stefan Schoder, Dionysios Panagiotopoulos

09:20–09:40

State-space modelling of head-related transfer functions

Speaker

Art J.R. Pelling

09:40–10:00

Efficient solution of multiple input multiple output vibro- acoustic Finite Element systems through an accelerated deflation strategy

Speaker

Dionysios Panagiotopoulos

10:00–10:20

Building web-page boundary elements software for modeling sonic crystals scattering pattern

Speaker

Marek Moszyński

10:20

10:40

A12.01 Numerical methods for acoustics and vibration: S525

Session | **Location:** Messe Congress Graz, Galerie B | **Conveners:** Stefan Schoder, Dionysios Panagiotopoulos

10:40–11:00

A Robust Adaptive Wavenumber Sampling Approach For Efficient 2.5D Acoustic Simulations

Speaker

Likun Luo

11:00–11:20

Towards a localised POD-Galerkin reduced-order modelling approach for time-varying structural dynamics

Speaker

Shing-Cheung To

11:20–11:40

Efficient CAD-based broadband acoustic analysis and shape design using reduced-order IGABEM models

Speaker

Philip Le

11:40