

Session Program

8–12 Sept 2026

Forum Acusticum 2026

***A12.09 Hybrid Modelling Approaches for Efficient and
Accurate Simulations***

Wednesday 9 September

10:20

A12.09 Hybrid Modelling Approaches for Efficient and Accurate Simulations: S086

Session | Location: Messe Congress Graz, Galerie B | Conveners: Albert Prinn, Jan Wouter Smits

10:20–10:40 A Neural Network Approach to Spherical Wave Reflections in the Image Source Method

Speaker

Muyue Xi

10:40–11:00

MIMO Room Impulse Response Analysis and Synthesis through a Modal-Domain Approach: Application to a Reverberation Chamber

Speaker

Giulia Fratoni

11:00–11:20

Towards a Hybrid Numerical Wave Method for Rooms with Extended Reaction Materials

Speaker

Albert Prinn

11:20–11:40

Secondary source method for polygonal scattering objects with cavities

Speaker

Peter Svensson

11:40–12:00

JAX-BEM: Gradient-Based Acoustic Shape Optimisation via a Differentiable Boundary Element Method

Speaker

James Hipperson

12:00