

Session Program

8–12 Sept 2026

Forum Acusticum 2026

A17.05 Sound field estimation and reconstruction

Wednesday 9 September

14:20

A17.05 Sound field estimation and reconstruction: S124

Session | Location: Messe Congress Graz, Saal 11A | Conveners: Elias Zea, Samuel A. Verburg

14:20–14:40

Time-domain Behaviour of Spatial Aliasing Artefacts in Spherical Microphone Arrays Processing

Speaker

Yueheng LI

14:40–15:00

Measurement of the Spurious Sound Field Generated by a Parametric Array Loudspeaker Using Exponential Sine Sweeps

Speaker

Augusto Fantinelli

15:00–15:20

Sound Field Estimation in Continuous Time using Kernel Ridge Regression

Speaker

Jesper Brunnström

15:20–15:40

Directional Mixture Models of Continuous Plane-Wave Distributions for Sound Field Estimation

Speaker

Matthias Blochberger

15:40

15:00

A17.05 Sound field estimation and reconstruction: P494

Session | Location: Messe Congress Graz, Messehalle (Poster+Exhibition) | Conveners: Elias Zea, Samuel A. Verburg

15:00–18:00

Learning Object Geometry from Acoustic Scattering via a Brinkman Penalty in a Universal Physics-Informed Neural Network

Speaker

Stefan Graham

18:00

16:00

A17.05 Sound field estimation and reconstruction: S403

Session | Location: Messe Congress Graz, Saal 11A | Conveners: Elias Zea, Samuel A. Verburg

16:00–16:20

Superresolution of spatial room impulse responses with boostlet transforms

Speaker

Elias Zea

16:20–16:40

From eigenfunctions to sources: Four extremes of Gaussian boostlet kernels

Speaker

Elias Zea

16:40–17:00

Extending the frequency range of sound field reconstruction methods using perceptual criteria

Speaker

Antonio Figueroa-Duran

17:00–17:20

Sound Field Reconstruction with a Differentiable Source Model**Speaker**

Samuel A. Verburg

17:20–17:40

Data-Driven Low Frequency Concert-Hall Transfer Function Reconstruction using Flow Matching Neural Process**Speaker**

Louis Reine

17:40–18:00

Learning-Based Multi-Listener Sound Field Reproduction Using Boundary Velocity Targets**Speaker**

Nara Hahn

18:00