

SATELLITE EVENTS

IN 32ND INTERNATIONAL CONGRESS ON SOUND AND VIBRATION (ICSV32)

ACOUSTICS & VIBRATION ACADEMY (AVA)

Current Trends and Advanced Methods in Acoustics and Vibration

MODULE 1

"Future Soundscapes"

Organiser: Assoc. Prof. Dr. Francesco Aletta

AVA Acoustics &
Vibration
Academy

ICSV32

32nd International Congress
on Sound and Vibration

05 - 10 JULY 2026
I S T A N B U L

The annual congress of the International
Institute of Acoustics and Vibration (IIAV)

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Current Trends and Advanced Methods in Acoustics and Vibration

 **04-05 July 2026**

 **Mimar Sinan Fine Arts University, Bomonti Campus**

Cumhuriyet Mah. Silahşör Cad. No:71 Bomonti
Şişli, İstanbul, Türkiye

 **Registration** (open until April 30, 2026): **\$150**

 **Participation Grants** (open until April 30, 2026):
Scholarships of **\$150**, covering the registration
fee will be awarded to **10 students each**.



MODULE 1

“Future Soundscapes”

Organiser: Assoc. Prof. Dr. Francesco Aletta

1.1. Soundscape

Francesco Aletta, University College London,
UK

1.2. Psychoacoustics

Radi Serafimov, HEAD Acoustics, Germany

1.3. AI and Digital Methods in Soundscape

Volkan Acun, University of Salford, UK

PBL: Perception-Driven Design in Acoustics

Antonio José Torija Martínez, University of
Salford, UK

The Future Soundscapes module is an advanced training course focused on contemporary methods for soundscape assessment and prediction, grounded in the ISO 12913 framework. The course explores soundscape theory, human perception, and psychoacoustics as the basis for structured data collection, analysis, and interpretation across indoor, outdoor, and natural environments.

Participants will engage with current soundscape assessment methodologies, soundscape indicators and descriptors, and the theory behind and application of soundscape prediction models. The training also introduces emerging analytical

approaches, including AI-assisted data processing and modelling, and considers how these tools can support evidence-based design, planning, and decision-making within existing regulatory and standards-based contexts."

PBL: Perception-Driven Design in Acoustics

This course introduces perception driven design in acoustics, moving beyond traditional sound level approaches. It aims to explore state of the art methods including auralisation, psychoacoustic testing, and advanced noise and sound quality metrics. Furthermore, the course examines practical applications and success measures to enhance acoustic design aligned with human perception.

EDUCATORS



Francesco Aletta

University College London, UK

Dr Francesco Aletta is an Associate Professor in Building Physics and Soundscape at Institute for Environmental Design and Engineering, University College London (UCL). His research focuses on environmental acoustics and soundscape studies. Francesco is committed to advancing soundscape research through his contribution to the ISO 12913 series on soundscapes, which provides a comprehensive framework for assessing and managing urban sound environments. Francesco's research has informed international policy discussions. He authored a United Nations Environment Programme report in 2022, addressing emerging environmental concerns related to noise and its impact on public health and urban environments. His work is frequently referred in policy documents and guidelines aimed at promoting healthier and more sustainable sound environments globally. As part of his standardization efforts, Francesco coordinated the Soundscape Attributes Translation Project, an international collaboration of more than 100 scholars worldwide.

He is also an active member of editorial boards for leading journals, including the Journal of the Acoustical Society of America (Coordinating Editor for TC Noise), and member of the organizing committee of several international conferences, including the Urban Sound Symposium, and the Lancet UK Public Health Science Conference. Francesco is a member of the Italian Acoustical Society (AIA), the Acoustical Society of America (ASA), and serves as Chair of the Technical Committee Noise of the European Acoustics Association (EAA). With over 200 publications, 6,000 citations and multiple awards, including the ASA Science Communication Award in 2023, Francesco aims to contribute to the global discourse on soundscape design, urban acoustics, and public health.



Radi Serafimov

HEAD Acoustics, Germany

Radi Serafimov has been working in acoustics for more than 15 years, covering different areas such as voice, audio, noise and vibration quality and optimization. Graduated University of Kiel in 2011, obtaining MSc in Digital Communications.

Thanks to his work for HEAD acoustics, first as Consulting Engineer in Voice and Audio Quality and since 2018 as Sales NVH Engineer has obtained expertise not only in research and development with various publications and participations in forums such as DAGA, ITG, ETSI, but also practical and project-oriented experience in all fields of the company portfolio – psychoacoustics, vibration, speech, audio and sound quality. One of the few, that has worked in both company areas – Sound, Vibration, Perception and Voice and Audio Quality.

Since changing to Sales NVH team, has been responsible for representing the company products and values in Austria, Central and Eastern Europe, including Türkiye!



Volkan Acun

University of Salford Manchester, UK

Volkan Acun is a Research Fellow at the Acoustics Research Centre, University of Salford. He holds a Bachelor's, Master's, and a PhD in Interior Architecture and Environmental Design from Bilkent University. His research focuses on human perception of soundscapes and community responses to environmental noise, with a particular emphasis on sound emissions from low-carbon technologies, such as air source heat pumps. His work integrates controlled listening experiments, field measurements, psychoacoustic analysis, and advanced statistical modelling to investigate annoyance, valence, and arousal responses to complex acoustic environments. A central focus of his work involves applying machine learning methods to model and predict human responses to sound, thereby enabling a deeper understanding of how auditory environments affect psychological well-being. His research aims to inform evidence-based noise assessment frameworks and support the sustainable deployment of emerging technologies.



Antonio José Torija Martínez

University of Salford Manchester, UK

Prof. Antonio José Torija Martínez is a world-leading expert in environmental acoustics and pioneer of Perception-Driven Engineering, placing human noise perception at the centre of design for sustainable mobility and decarbonisation. His expertise has earned him international recognition and invitations such as providing evidence to the UK House of Lords on noise and health. He has led major EU, UKRI, and industry-funded projects, following a prestigious Marie Skłodowska - Curie Fellowship, and received multiple awards for excellence in acoustics. Widely published in top journals including Nature and Scientific Reports, he contributes to key international groups on aircraft and UAS noise (NASA, NATO, ISO, IEA). He serves as the UK's Responsible National Expert on heat pump acoustics and chairs the Quiet Drones international conference series, being recognised as the world's most influential author on drone noise.

PROGRAM

MODULE 1: FUTURE SOUNDSCAPES			
04.07.2026 - Saturday		05.07.2026 - Sunday	
TIME	TOPIC	TIME	TOPIC
09.00-13.00	1- Soundscape Francesco Aletta	09.00-13.00	3- AI and Digital Methods in Soundscape Volkan Acun
			Technology meet
13.00-14.00	Lunch	13.00-14.00	Lunch
14.00-18.00	Technology meet	14.00-18.00	PBL: Perception-Driven Design in Acoustics Antonio José Torija Martinez
	2- Psychoacoustics Radi Serafimov		
		18.00-18.30	Exam (optional – for students)

ORGANISING COMMITTEE



Bilge Şan Özbilen



Ayça Şentop Dümen



Papatya Nur
Dökmeci Yörükoğlu



Konca Şaher



Dilara Kelle

*The program is subject to change until the event date.