One day conference organised by Institute of Acoustics (IOA) London Branch
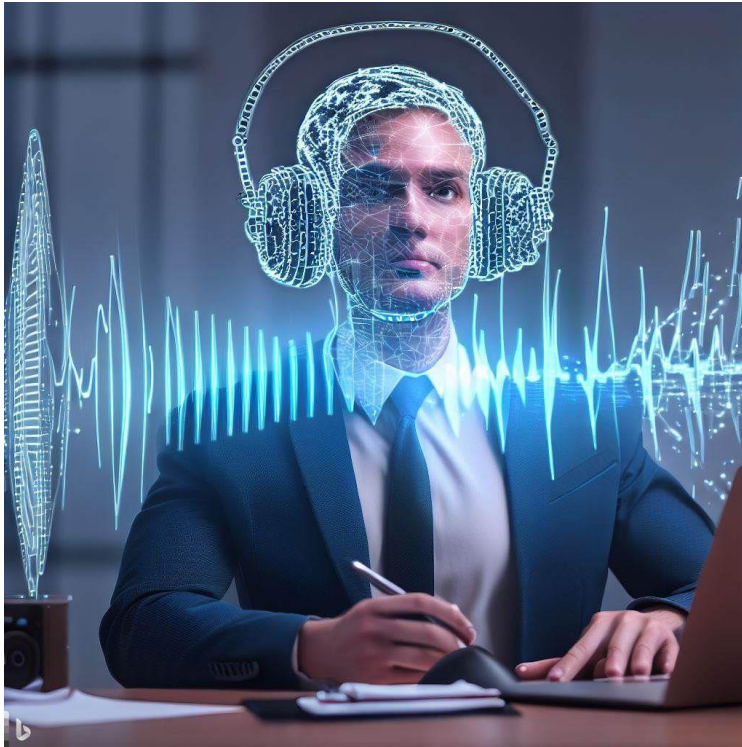

Artificial Intelligence for Acoustics

Wednesday 22 May 2024

The Hub, London South Bank University

Given the recent increase in use of Artificial Intelligence (AI) tools such as ChatGPT, there has been much speculation and interest in how AI can be harnessed as a tool across the acoustics industry. However, whilst there are many possibilities for application, there are also many questions still to be answered.

Programme

09:00 Registration & Coffee

09:55 Welcome

10:00 The Day the Robots Came for Acousticians: What is AI and what can it do for us?
Tony Trup, Timbral

10:25 The AI paintbrush: can machines hallucinate venues?
Ed Elbourne and Andreea Felciuc, Arup

10:50 Artificial Intelligence approaches to Detecting and Predicting important events in the "Lifecycle" of a Honeybee Colony based on Acoustic Signals
Stenford Ruvinga and Gordon Hunter, Kingston University

11:15 Coffee

11:45 Potential of AI is acoustical data analyses
Nikhilesh Patil, Hoare Lea

12:10 Analysis of amplitude modulation from wind turbines
Rory Fotheringham, TNEI

12:35 Panel discussion

13:00 Lunch

14:00 Automated audio analysis
Luca Marchesotti, Risso AI

14:25 Machine listening with natural language
Jinhua Liang, Queen Mary University

14:50 Harnessing generative AI: applying ChatGPT APIs for enhancing acoustic survey field note taking
Shenzhi Su, Cundall

15:15 Refreshments

15:40 Various applications of AI relating to acoustic simulations
Finnur Pind, Treble

16:05 Efficient AI Models for audio classification, a step towards sustainable AI
Arshdeep Singh and Mark Plumbley, University of Surrey

16:30 Panel discussion

16:55 Close

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