

## Music-Tech Workshop, School of EE, Tel Aviv University

April 22, 2025, Auditorium 001, Binyan Broadcom

Organizers: Dr. Lior Arbel and Prof. Ram Zamir

| Time          | Speaker(s)                                                                                                                       | Title                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|               |                                                                                                                                  |                                                                                                    |
| 8:30 - 9:15   |                                                 | Gathering                                                                                          |
| 9:15 - 9:25   | Prof. Noam Eliaz – Dean of Engineering<br>Prof. Eran Socher – EE School Head<br>Prof. Ram Zamir – co-organizer                   | Welcome address                                                                                    |
| 9:25 – 10:00  | <b>Prof. Mark Sandler</b><br>Queen Mary University, London<br>**The Institute of Advanced Studies**<br>IAS Distinguished Scholar | The Centre for Digital Music at Queen Mary University of London: history, facts and lessons        |
| 10:00 – 10:25 | <b>Dr. Lior Arbel</b><br>Technion & Ben Gurion University                                                                        | Soundscape Synthesizer / Music Technology Lessons Learned the Hard Way                             |
| 10:25 – 10:50 | <b>Mrs. Hadas Pe'ery</b><br>School of music, Tel Aviv University                                                                 | Motion Sensor Design: Building Expressive Tools for Dance-Music Interaction                        |
| 10:50 – 11:20 |                                               | Coffee break 1                                                                                     |
| 11:20 – 11:45 | <b>Mr. Gil Peled</b><br>Simply                                                                                                   | Reshaping Music Learning: Innovating Real-Time Polyphonic Music Transcription for Simply Piano     |
| 11:45 – 12:10 | <b>Mr. Ben Maman</b><br>Audio Labs, Fraunhofer institute                                                                         | <a href="#">Multi-Aspect Conditioning for Diffusion-Based Multi-Instrument Music Synthesis</a>     |
| 12:10 – 12:35 | <b>Prof. Boaz Rafaely</b><br>Ben Gurion university                                                                               | Spatial audio recording and Ambisonics encoding                                                    |
| 12:35 – 13:45 |                                               | Lunch break                                                                                        |
| 13:45 – 14:10 | <b>Dr. Neta Maimon</b><br>TAU                                                                                                    | Music, Tech, and Neuroscience: Using Sound to Assess and Enhance Brain Function                    |
| 14:10 – 14:35 | <b>Dr. Noam Amir</b><br>Tel Aviv University                                                                                      | <a href="#">Music production and perception research at Tel Aviv University</a>                    |
| 14:35 – 15:10 | Moderator: <b>Dr. Shuki Koriski</b> , TAU                                                                                        | Industry-academia panel                                                                            |
| 15:10 – 15:40 |                                               | Coffee break 2                                                                                     |
| 15:40 – 16:05 | <b>Mr. Amir Graitzer</b><br>MyPart                                                                                               | <a href="#">Music in the Age of AI Reproduction: From Human Creation to Machine Interpretation</a> |
| 16:05 – 16:30 | <b>Prof. Oded Ben Tal</b><br>Kingston University, London                                                                         | <a href="#">Human AI Co-Creation: the case for music improvisation</a>                             |