

Thursday,
October
31st, 2024

The Iby and Aladar Fleischman
Faculty of Engineering
Tel Aviv University

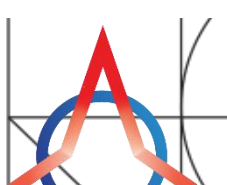
The 12th Tel Aviv University Underwater Acoustics Symposium

IEEE Israel
AP/MTT Chapter

- 09:20-10:00 **Registration & Coffee**
- 10:00-10:10 **Welcome and Opening Remarks**
Prof. Noam Eliaz - Dean of the Faculty of Engineering, Prof. Amir Boag - TAU Underwater Acoustics Center, Commander Guy Schory – Israeli Navy.
- 10:10-10:30 **Prof. Andrey Bogdanov – ITMO University and Harbin Engineering University**
Broadband Noise-Insulating Meta-Structures Based on Coupled Helmholtz Resonators
- 10:30-10:50 **Dr. Elazar Sonnenschein – Pulsenmore**
Automatic Industrial Production of Ultrasound Transducer
- 10:50-11:10 **Prof. Amir Boag – Tel Aviv University**
Synthetic Aperture Sonar Imaging Algorithms
- 11:10-11:30 **Iris Roger-Eitan – Rafael, Dr. Evgeny Chernokozhin – TAU, Dr. Stoltenberg Arne, Dr. Schaefer Ingo, Dr. Anna Gleizer – WTD 71 and Prof. Amir Boag - TAU**
Acoustic Back Reflections from Complex Models
- 11:30-11:50 **Prof. Ehud Heyman – Tel Aviv University**
Modeling of Target Echo Strength in a Shallow Water Propagation Channel
- 11:50-12:10 **Prof. Boris Katsnelson – Haifa University**
Space-Time Rays in Underwater Acoustic Waveguide in the Presence of Horizontal Refraction
- 12:10-13:10 **Lunch on site (Dairy) & Poster presentations**
- 13:10-13:30 **Lisa Trunk – ATLAS ELEKTRONIK GmbH and Sela Meyouhas – IAI Elta**
BlueWhale - ASW Performance at REPMUS and DYMS 2023
- 13:30-13:50 **Dr. Oren Gal – Haifa University**
Searching and Tracking Acoustic Target Using Distributed Underwater Swarm
- 13:50-14:10 **Prof. Joseph Tabrikian – Ben Gurion University**
Optimal Enumeration of Normal Mode Model for Robust Target Localization in Misspecified Shallow Water Environment
- 14:10-14:30 **Meydan Kaplan and Dr. Yaniv Brick – Ben Gurion University**
Fast Hybrid Integral Equation Solver for Underwater Acoustic Scattering
- 14:30-14:50 **Oded Ovadia and Prof. Eli Turkel – Tel Aviv University**
Solving Forward and Inverse PDE Problems Using Modern Deep Learning Methods
- 14:50–15:20 **Coffee Break, Refreshments & Poster presentations**
- 15:20-15:40 **Mark Shipton – Haifa University, Juraj Obradovic, Nikola Tomislav Bulat – Zagreb University, Neven Cukrov – Ruder Bošković Institute and Roe Diamant – Haifa University**
A Database of Underwater Radiated Noise In Coastal Area of Small Vessels
- 15:40-16:00 **Prof. Avishay Eyal, Nadav Arbel, Yossi Dadush and Prof. Moshe Tur – Tel Aviv University**
Quasi Distributed Acoustic Sensing for Underwater Sensing and Communications
- 16:00-16:20 **Dr. Lea Beilkin-Sirota – Tel Aviv University**
Sound Wave Acceleration and Tunneling in Feedback-based Acoustic Metamaterials
- 16:20-16:40 **Prof. Yizhaq Makovski – University of Haifa**
Synthetic Aperture Sonar (SAS) – a Transformative Capability in Management of the Deep Sea
- 16:40-17:00 **Dr. Amir Handelman – Holon Institute of Technology**
Current Research Directions in Underwater Wireless Optical Communication
- 17:00 - **Wine and Cheese Reception**

Participation is
free of charge, but
[advance
registration](#)
is required

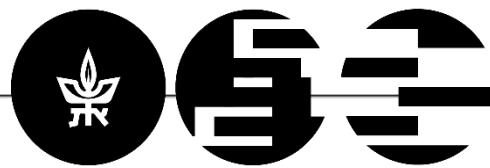
Samueli Auditorium
Broadcom Building
Faculty of Engineering
Tel Aviv University



AEAI

אלה שמתאהבים בבעיה
הם אלה שממציאים לה פתרון

Thursday,
October
31st, 2024



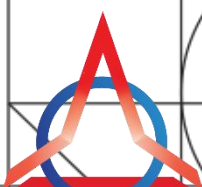
The Iby and Aladar Fleischman
Faculty of Engineering
Tel Aviv University

The 12th Tel Aviv University Underwater Acoustics Symposium



Poster Presentations

1. **Guy Gubniski and Prof. Roe Diamant – Haifa University**
Automatic Detection of Sperm Whale Codas
2. **Dr. Talmon Alexandri and Prof. Roe Diamant – Haifa University**
Design of an Optimal Testbed for Acoustic Tags: Test Case for Marine Megafauna Large Areas of Shallow Sea
3. **Denis Manulchev and Prof. Boris Katsnelson – Haifa University**
Estimating Sound Exposure Levels Due to a Broadband Source over Large Areas of Shallow Sea
4. **Marina Yarina and Prof. Boris Katsnelson – Haifa University & Prof. Oleg A. Godin – Naval Postgraduate School, USA**
Modelling of Cross Correlation function of wideband signals (shipping noise) in a underwater waveguide and estimation of parameters of layered sediment
5. **Shaked Sasporta, Michal Gendler Fishman – Tel Aviv University & Lt. Homer Levy and Cdr. Guy Schory – Israeli Navy**
Improving Performance for Sonar Arrays
6. **Yaad Ben Lulu, Gay Lang and Yizhaq Makovsky – Haifa University**
Estimation of the sound velocity in the post-Last Glacial Maximum (LGM) section of the Israeli continental shelf
7. **Gleb Papier, Henriette Wickens, Or Bialik and Yizhaq Makovsky – Haifa University**
Dynamics of gas seepages at the Napoli Mud Volcano from a multibeam water column data



AEAI

אלה שמתאהבים בבעיה
הם אלה שממציאים לה פתרון