

Thursday,  
June 15th,  
2023



The Iby and Aladar Fleischman  
Faculty of Engineering  
Tel Aviv University

## The 11th Tel Aviv University Underwater Acoustics Symposium



- 09:00-09:30 **Registration & Coffee**
- 09:30-09:40 **Welcome and Opening Remarks**  
Prof. Noam Eliaz - Dean of the Faculty of Engineering, Prof. Amir Boag - TAU Underwater Acoustics Center  
Capt. Moshe Pariente - Head of Systems Division DDR&D, Capt. Ziv Razinsky - Navy
- 09:40-10:40 **Capt. Ioannis Androulakis – MANiBUS Ltd., Greece**  
The Underwater Aspects of Maritime Security - Underwater Acoustics: Technologies and Applications
- 10:40-11:00 **Prof. Ehud Heyman – Tel Aviv University**  
The Spectral Theory of Transient (STT): New Directions and Canonical Integrals
- 11:00-11:30 **Coffee Break**
- 11:30-11:50 **Iris Roger-Eitan and Dr. Anna Gleizer – Rafael**  
Near Field to Far Field – Numerical and Physical Methods
- 11:20-12:10 **Dr. Evgeny Chernokozhin and Prof. Amir Boag – Tel Aviv University**  
Evolution of Solvers for Acoustic Scattering by Thin Elastic Shells
- 12:10-12:30 **Dr. Lea Beilkin-Sirota – Tel Aviv University**  
Active Acoustic Imitation of a Rigid Object under Varying Detection Frequency
- 12:30-12:50 **Prof. Boris Katsnelson – Haifa University**  
Landau-Zener Mechanism of the Waveguide Mode Coupling and its Manifestation in Shallow Water Sound Propagation
- 12:50-13:50 **Lunch on site (Dairy)**
- 13:50-14:10 **Azriel Sinai and Yaron Doweck – Rafael, Yair Mazal – Ben Gurion University**  
Real Time Control, Telemetry and Image Streaming from and to Autonomous Underwater Vehicles
- 14:10-14:30 **Prof. Roe Diamant – Haifa University, Prof. Paolo Casari University of Trento, Italy & Prof. Stefano Tomasin – University of Padova, Italy**  
Secret Key Generation from Route Propagation Delays for Underwater Acoustic Networks
- 14:30-14:50 **Prof. Izhak Bucher, Maya Friedlander, and Ernst Uzhansky – Technion**  
Leveraging Ultrasonic Parametric Acoustic Arrays to Manipulate External Low-Frequency Sounds
- 14:50-15:10 **Nadav Arbel, Prof. Moshe Tur, and Prof. Avishay Eyal – Tel Aviv University**  
Quasi-distributed Ultrasound Sensing via an Array of Fiber Bragg Gratings
- 15:10–15:40 **Coffee Break & Refreshments**
- 15:40-16:00 **Prof. Joseph Tabrikian – Ben-Gurion University**  
Optimal Model Order Selection in Normal Modes Model Using Misspecified Cramer-Rao Bound
- 16:00-17:00 **Dr. Gil Averbuch – Woods Hole Oceanographic Institution, USA**  
New England Shelf Break and Seamount Acoustics
- 17:00 - **Wine and Cheese Reception**

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



Rosenblatt Auditorium  
Software Engineering Building  
Tel Aviv University



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