Leon H. Charney School of Marine Sciences
UNIVERSITY OF HAIFA

Marine Technologies Conference (MTC)

10.09.25

Safdie Auditorium, University of Haifa

08:15 – 09:00	**Gathering**
09:00 – 09:05	**Opening** Itzik Klein, University of Haifa
09:05 – 10:00	**Session 1. Signal processing in underwater acoustics: shipping noise and bioacoustics** Chair: Mark Shipton, University of Haifa
	Localization of Sperm Whale Clicks in the Presence of Dispersive Sound Speed Yaacov Buchris, University of Haifa
	The hearmyship database and analysis of shipping underwater radiated noise Mark Shipton, University of Haifa
	Source separation of sperm whale clicks Guy Gubnitsky, University of Haifa
10:00 – 11:00	**Session 2. Autonomy and decision-making for marine robotics** Chair**:** Oren Gal, University of Haifa
	Swarm and AI Lab (SAIL) Overview Oren Gal, University of Haifa
	Reinforcement Learning for AUV Navigation Using Vision and Sonar Data Eli Shafer, University of Haifa
	Swarm Optimization in Dynamic Flow using Multi-Agent Reinforcement Learning Josef Berman, University of Haifa
	Enhancing AUV Maneuverability through CFD Prediction and Machine Learning Aurele Itah, University of Haifa
	Swarm Management Optimizing Long-Range Communication of USVs Yevgeni Gutnik, University of Haifa
11:00 – 11:20	**Break**
11:20 – 12:20	**Session 3. AI-aided autonomous underwater vehicle navigation** Chair: Itzik Klein, University of Haifa
	AI-Aided Navigation and Sensor Fusion in Challenging Environments Itzik Klein, University of Haifa
	Unscented Kalman Filter with a Nonlinear Propagation Model for AUV Navigation Amit Levi, University of Haifa
	A Data-Driven Method for INS/DVL Alignment Guy Damari, University of Haifa
	Gaussian Process Regression for Improved Underwater Navigation Nadav Cohen, University of Haifa

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12:20 – 13:20	**Session 4. Marine technologies for environmental sustainability** Chair: Yizhaq Makovsky, University of Haifa
	AUV Synthetic Aperture Sonar (SAS) – A Transformative Capability in Deep-Sea Sustainability Yizhaq Makovsky, University of Haifa
	SEASCAN – NRT Ship Recognition Tal Feingersh, Israel Aerospace Industries
	Remotely Operated Vehicle as a Platform for Deep Sea Research Oded Ezra, Astral-Subsea
13:20 – 14:20	**Lunch**
14:20 – 15:20	**Session 5. Light, optics, vision and color in the ocean** Chair: Derya Akkaynak, University of Haifa
	Underwater Color Reconstruction: Challenges and opportunities Derya Akkaynak, University of Haifa
	Numerical Statistical Modeling in Problems of Marine Optics Arseny Kargin, University of Haifa
	Secchi Disk Visibility: Advancing Theory and Method Amir Hadad, University of Haifa
	Estimating optical properties of water from RGB data Grigory Solomatov, University of Haifa
15:20 – 15:45	**Session 6. Marine Technologies** Chair: Gil Wang
	Resilient by Design: Floating Solutions for Coastal Urban Challenges Gil Wang, Coastal and Marine Engineering Research Institute
15:45 – 16:00	**Closing Remarks and Award Ceremony** Itzik Klein, University of Haifa
16:15 – 17:15	**IEEE OES Israeli Student Branch Poster Session**