

Hellenic Robotics Forum (HRF) 2026

July 1-2, 2026, Athens, Greece



Wednesday, July 1 (Day 1)

Spotlight Session 1 (10:00-11:00)		
No	Authors	Title
1	Georgios Kamaras, Subramanian Ramamoorthy	Distributional Treatment of Real2Sim2Real for Object-Centric Agent Adaptation in Vision-Driven DLO Manipulation
2	Vasiliki Fiska, Konstantinos Mitsopoulos, Vasiliki Mantiou, Vasileia Petronikolou, Panagiotis Antoniou, Konstantinos Tagaras, Konstantinos Kasimis, Konstantinos Nizamis, Markos G. Tsipouras, Alexander Astaras, Panagiotis D. Bamidis, Alkinoos Athanasiou	Integration and Validation of Soft Wearable Robotic Gloves for Sensorimotor Rehabilitation of Human Hand Function
3	Giorgos Sfikas, George Retsinas	Unlocking the matrix form of the Quaternion Fourier Transform and Quaternion Convolution: Properties, connections, and application to Lipschitz constant bounding
4	Dimitrios Papageorgiou, Konstantinos Plotas, Emmanouil Papadakis, Drosakis Drosakis, Panos Trahanias	A control scheme for collaborative object transportation between a human and a quadruped robot using the MIGHTY suction cup
5	Leonidas Koutras, Sotiris Stavridi, Christos Papakonstantinou, Zoe Doulgeri	Robotic Shelf Replenishment by Combining Non-Prehensile Object Manipulation with Simple Grasping
6	Dimitris Chaikalis, Anthony Tzes	Safe and Compliant Cooperative Manipulation with Heterogeneous Mobile Robots
7	Ioannis Poulakakis, Shubham Kumbhar, Abhijeet Kulkarni	Capturable Humanoid Locomotion in Constrained Environments

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Spotlight Session 2 (16:00-17:00)		
No	Authors	Title
1	Despina Ekaterini Argiropoulos, Michael Maravgakis, Changda Tian, Dimitrios Papageorgiou, Panos Trahanias	Optimal Torque Distribution via Dynamic Adaptation for Quadrupedal Locomotion on Slippery Terrains
2	Dimitrios Chatziparaschis, Elia Scudiero, Brent Sams, Konstantinos Karydis	An Annotation-to-Detection Framework for Autonomous and Robust Vine Trunk Localization in the Field by Mobile Agricultural Robots
3	Mariliza Tzes, Nikolaos Bousias, Evangelos Chatzipantazis, George Pappas	Graph Neural Networks for Multi-Robot Active Information Gathering
4	Theodora Kastritsi, Luigi Villani, Bruno Siciliano, Fanny Ficuciello	Safe Mode-Switching Control Architecture for Robotic-Assisted Surgery Integrating Teleoperation and Autonomy
5	Katerina Papadimitriou, Panagiotis Filintisis, George Retsinas, Gerasimos Potamianos, Petros Maragos	Seeing in 2D, Thinking in 3D: 3D Hand Mesh-Guided Feature Learning for Continuous Fingerspelling
6	Panagiotis Filintisis, Efthymios, Tsaprazlis, Paraskevas Oikonomou, Francesco Mattioli, Vieri Giuliano Santucci, George Retsinas, Petros Maragos	Towards Open-ended Robotic Exploration using Vision-Inspired Similarity and Foundation Models
7	Athansios Gkesoulis, Panagiotis Georgakis, George Karras, Charalampos Bechlioulis	Autonomous Sea Floor Coverage with Constrained Input Autonomous Underwater Vehicles: Integrated Path Planning and Control
8	Georgios Bertos, Anestis Mablekos-Alexiou, Evangelos Papadopoulos, Spiros Kontogiannopoulos, Nikos Koukoulas, Zacharias Vangelatos	Biomechatronic Extended Physiological Proprioception (EPP) for Upper-Limb Prosthesis Control

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Thursday, July 2 (Day 2)

Spotlight Session 3 (9:15-10:00)		
No	Authors	Title
1	Marios Xanthidis	Underwater Dense Mapping with the First Compact 3D Sonar
2	Christos Belogiannis, Ioannis Giannoulas, Vasileia Diamanti, Dimitris Siskos, Iordana Gaisidou, Christos Vrakatselis, Natalia Angeli, Fotios Plessas	HERMES EXO: Empowering Mobility with Modular Lower-Limb Robotic Exoskeleton for CYBATHLON 2024
3	Andreas Vatistas, George Moustiris, Constantinos Tzafestas	A Visibility-Based Near-Optimal Planner for Robotic Inspection in Ultra High Voltage Centers
4	Isidoros Marougkas, Dhruv Metha Ramesh, Joe Doerr, Edgar Granados, Aravind Sivaramakrishnan, Abdeslam Boularias, Kostas Bekris	Integrating Model-based Control and RL for Sim2Real Transfer of Tight Insertion Policies
5	Charis Stamouli, Anastasios Tsiamis, Manfred Morari, George J. Pappas	Layered Multirate Control of Constrained Linear Systems
6	Nikolaos Bousias, Lars Lindemann, George Pappas	Symmetry-infusion in multi-robot safety certificates
7	Kostas Kyriakopoulos, Raksi Kopo, Fotis Panetsos, Armando Nicolella, Spyridon Tarantos	Underwater Vehicle-Manipulator Systems (UVMS): Towards Reliable Underwater Inspection and Repair

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Thursday, July 2 (Day 2)

Spotlight Session 4 (14:30-15:40)		
No	Authors	Title
1	Vasiliki Balaska, Nikolaos Efstathopoulos, Nikolaos Kounalakis, John Fasoulas, Dimitrios Papageorgiou	GRASPAD: Generalized framework for optimal grasp key-points active detection
2	Zhuoyun Zhong, Seyedali Golestaneh, Constantinos Chamzas	ACTIVE PUSHER: Active Learning and Planning with Residual Physics for Nonprehensile Manipulation
3	Stavros Vougioukas, Yuankai Zhu	Fast Scheduling and Trajectory Planning for Robotic Fruit Harvesters With Multiple Cartesian Arms
4	Georgia Kouvoutsakis, Caio Mucchiani, Pamodya Peiris, Elena Kokkoni, Konstantinos Karydis	Exploration of a New Inter-Limb Coordination Training Paradigm using Socially Assistive Aerial Robots and Humanoid Synthetic Agents
5	Aikaterini Smyrli, Evangelos Papadopoulos	Design Investigation of Biomechanically Inspired Bipedal Robots And Morphological Intelligence in Passive Dynamics
6	Athanasios Polydoros, Emlyn Williams	Zero-Shot Sim-to-Real Reinforcement Learning for Fruit Harvesting: Extended Abstract
7	Ioannis Rekleitis, Michalis Chatzisyrou, Luke Horgan, Hyunkil Hwang, Harish Sathishchandra, Chinmay Burgul, Monika Roznere, Alberto Quattrini Li, Philippos Mordohai	Multi-Session Visual-Inertial SLAM and 3D Reconstruction of an Underwater Shipwreck
8	Dimosthenis Angelis, Rasmus Andersen, Valeria Alexandra Feraru, Evangelos Boukas	UAV Design for Fully Autonomous Man Overboard Detection
9	Panagiotis Vartholomeos, Zicong Wu, Christos Bergeles, Hadi Sadati	Lumped Parameter Dynamic Model of an Eversion Growing Robot: Analysis, Simulation and Experimental Validation