



Important notice: Although we make every effort to ensure the accuracy and reliability of the programme, all listed times and venues are subject to change. Participants will be informed of any changes in a timely manner.

Version 1.4 (draft)

	Wednesday, 9 September 2026	
Time	Event	Venue
19:00 – 22:00	<i>Welcome Gathering with Cocktail Dinner</i>	Museum of Ancient Glass Zadar 📍 Poljana Zemaljskog odbora 1

	Thursday, 10 September 2026	
Time	Event	Venue
08:30 – 09:30	<i>Registrations</i>	University of Zadar The Old Campus The Great Hall 📍 Obala kralja Petra Krešimira IV. 2, Zadar
09:30 – 10:15	<i>Opening Ceremony with Welcome Speeches</i>	
10:15 – 13:00	<i>Invited Lectures</i>	
10:15 – 11:00	<i>Invited Lecture (1)</i> Nedjeljko Perić (<i>University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia</i>) <i>Mechatronics and Robotics Study Programme as a Driver of Regional Economic Development</i>	
11:00 – 11:30	<i>Coffee Break</i>	
11:30 – 12:15	<i>Invited Lecture (2)</i> Mattia Marconi (<i>ABB Robotics, Milan, Italy</i>) <i>Autonomous Versatile Robotics - From Vision to Reality</i>	
12:15 – 13:00	<i>Invited Lecture (3)</i> Toni Karimović (<i>ORQA, Osijek, Croatia</i>) <i>ORQA: From FPV Goggles to a European Drone Technology Ecosystem</i>	
13:00 – 14:00	<i>Lunch Break</i>	

Thursday, 10 September 2026			
Time	Event		Venue
14:30 – 15:00	Registrations		University of Zadar SEP Building Ground Floor Rooms 01-03 
15:00 – 16:40	Parallel Sessions (1-2)		
	AI and Machine Learning in Robotics (1) Room: 01, Chair: TBA	Navigation, Planning and Control (1) Room: 03, Chair: TBA	
15:00 – 15:20	Z. Šojat (Centre for Informatics and Computing, Ruđer Bošković Institute, Zagreb, Croatia) Anorganic Intelligence in Autonomous Robotics: From Tool-Based Automation to Cognitive Partnership	I. Maravić, J. Rogina, L. Petrović, M. Seder (Faculty of Electrical Engineering and Computing, Zagreb, Croatia) Hierarchical Path Planning of Multi-Robot Systems in Large Environments	
15:20 – 15:40	L. Borozan, D. Matijević (University of Osijek, Osijek, Croatia) Scenario-Driven Control of Real-Time LLM Agents	T. Žužek, M. Benko Loknar, R. Vrabič (University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia) Predicting AGV Fleet Performance from Roadmap Graph Metrics	
15:40 – 16:00	A. Ameri E., L. Giacomossi, H. Forsberg , B. Çürüklü (Mälardalen University, Västerås, Sweden) From Noisy Commands to Multi-UAV Missions: Evaluating Compact Language Models for Natural-Language Mission Specification of Autonomous Drone Teams	M. Mijakovska (Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University, Skopje, Macedonia) MIMO LQR Path Tracking and System Architecture for Autonomous Mobile Robots: A Case Study in Macedonian Regional Hospitals	
16:00 – 16:20	J. Mahdy Al-Shammary, M. N. Noaman, D. Aitken, D. A. Ward (University of Sheffield, Sheffield, United Kingdom) Safety-Gated LLM Manipulation on a Collaborative Robot: A Reproducible Simulation-to-Hardware Framework	Ž. Hederić (Faculty of Electrical Engineering, Computer Science and Information Technology, Osijek, Croatia), A. Zdrilić (University of Zadar, Department of Ecology, Agronomy and Aquaculture, Zadar, Croatia), M. Kožul (MMM Agramservis, Zagreb, Croatia), T. Kos (University of Zadar, Department of Ecology, Agronomy and Aquaculture, Zadar, Croatia) Vector-Based Navigation and Energy-Efficient Route Planning for Autonomous Robotic Platforms in Orchard Environments	
16:20 – 16:40	A. Sarajlić, M. Čabaravdić (University of Zenica, Zenica, Bosnia and Herzegovina), L. Banjanović-Mehmedović (University of Tuzla, Tuzla, Bosnia and Herzegovina) A VLM Framework Combining YOLO, LLMs, and Depth Sensing for Smart Manufacturing	M. Marjanović, J. Prpić-Oršić (University of Rijeka, Faculty of Engineering, Rijeka, Croatia), M. Valčić (University of Zadar, Department of Mechatronics and Robotics, Zadar, Croatia) A Hierarchical Hybrid A*-SMPC Framework for Stochastic Ship Routing under IMO CII Regulations	
16:40 – 17:10	Coffee Break		
17:10 – 18:50	Parallel Sessions (3-4)		
	Special Session: RTA-DRONES - Drones for Safety and Purpose Room: 01, Chair: TBA	Education and Human-Centred Robotics Room: 03, Chair: TBA	
17:10 – 17:30	M. Jelić (University of Applied Sciences “Marko Marulić” in Knin, Knin, Croatia), V. Uroš (Faculty of Organisation and Informatics, University of Zagreb, Varaždin, Croatia) Drones in Ecology and Environmental Monitoring: Bibliometric State of the Art and Growth Forecasts to 2035	G. Golubić, M. Banek Zorica, T. Šijaković Katarinček (Department of Information and Communication Sciences, Faculty of Humanities and Social Science, Zagreb, Croatia) Educational Robotics and Music Learning: A Pilot Study with Micro: Maqueen Plus and HuskyLens in Primary Education	
17:30 – 17:50	J. Klasinc (Croatian Institute for Public Administration, Zagreb, Croatia) AI-Assisted Detection of Building Stratigraphic Indicators: a Conceptual UAV to GeoBIM Framework	N. Hoić-Božić, M. Holenko Dlab (Faculty of Informatics and Digital Technologies, University of Rijeka, Rijeka, Croatia), L. Jakić, I. Botički (Faculty of Electrical Engineering and Computing, University of Zagreb, Zagreb, Croatia) Educational Use of V-MRMS for Developing Computational Thinking through Robotics	
17:50 – 18:10	N. Martinović, D. Delija, G. Sirovatka, M. Žagar (Zagreb University of Applied Sciences, Zagreb, Croatia) Python-Based Forensic Analysis of UAV Flight Logs for Tactical Decision Support	M. Kovač (Elektrotehnička škola, Zagreb, Croatia) Preparing Future Automation Technicians through Industry 4.0 Robotics Projects in a Secondary Vocational School Environment	
18:10 – 18:30	A. Vafayev, M. Kerimkul (META University, Almaty, Kazakhstan) Safety-Constrained Dynamic Leader Election for GNSS-Denied UAV Swarms via Masked Reinforcement Learning	C. Andersson (Frankfurt University of Applied Sciences, Frankfurt, Germany), G. Kroisandt (htw Saar, Saarbrücken, Germany) Bridging Theory and Practice: Student Perceptions of Open Roberta in Teaching AI Through Robotics	
18:30 – 18:50	I. Jajić, B. Jaković, T. Ćurlin (Faculty of Economics and Business, Zagreb, Croatia) Emerging Business and Logistics Perspectives on Drone Delivery: A Bibliometric and Keyword Co-occurrence Analysis of 2025 and Early 2026 Research	Z. Vidačković (Croatian National Theatre Zagreb, Zagreb, Croatia) Human-Robot Interaction Models from Film: Conceptual Insights on Autonomy, Communication and Control	

	Friday, 11 September 2026			
Time	Event			Venue
08:30 – 09:00	Registrations			University of Zadar SEP Building Ground Floor Rooms 01-04  Ulica Šime Vitasovića 1, Zadar
09:00 – 10:40	Parallel Sessions (5-6)			
	AI and Machine Learning in Robotics (2) Room: 01, Chair: TBA	Navigation, Planning and Control (2) Room: 03, Chair: TBA		
09:00 – 09:20	Z. Šojat, K. Skala (Centre for Informatics and Computing, Ruđer Bošković Institute, Zagreb, Croatia) Substrate-Independent Intelligence: Towards the Science of Anorganology	M. Benko Loknar, T. Žužek, D. Kozjek, R. Vrabič (Faculty of Mechanical Engineering, Ljubljana, Slovenia) Minimum-Time Trajectory Planning for Warehouse AMRs Under Spatially Varying Velocity, Acceleration and Jerk Constraints		
09:20 – 09:40	R. Hossain, D. Naz, D. Souag, D. Manna (Canterbury Christ Church University, Canterbury, United Kingdom) Improving Photogrammetric Feature Extraction through Transformer-Based Image Pre-processing	Y. Coşkun (Istanbul Health and Technology University, Istanbul, Turkey), L. Özyılmaz (Istanbul Gelisim University, Istanbul, Turkey) Neural Approximation of Fuzzy Gain-Scheduled PID Control for a Dual-Crank Strandbeest Walking Mechanism		
09:40 – 10:00	J. Torić, M. Šarlija (University of Zadar, Zadar, Croatia), L. Petrović (University of Zagreb, Zagreb, Croatia) A Pilot Study of Action Quality Assessment with Vision-Language Models on Powerlifting Video Data	M. Moussaoui, M. Touati, M. Bousseksou, Y. Selmoune (University of Science and Technology Houari Boumediene, Algiers, Algeria) AI-Enhanced Adaptive Control of Induction-Motor Actuation Using Constrained Identification and RBF Neural Networks		
10:00 – 10:20	A. Jakoplić, Z. Šverko (Faculty of Engineering, Rijeka, Croatia), D. Praticò (University of Reggio Calabria, Reggio Calabria, Italy), D. Franković (Faculty of Engineering, Rijeka, Croatia) A Distributed System for Short-Term Solar Irradiance Forecasting Using Computer Vision and Multimodal Deep Learning	K. Osman, T. Alajbeg (Zagreb University of Applied Sciences, Zagreb, Croatia) Algorithm for Optimising the Position of the Centre of Mass of a Pipeline Inspection Robot Model while Passing through Fittings on Inclined Pipeline Branches		
10:20 – 10:40	S. Annang, S. Danso (Ghana Communication Technology University, Accra, Ghana), D. Gookyi (Council for Scientific and Industrial Research, Institute for Scientific and Technological Information, Accra, Ghana) Lightweight Machine Learning for Soil Nutrient Fertility Classification in Resource-Constrained Agricultural Systems	K. Brinziková (Pavol Jozef Šafárik University in Košice, Košice, Slovakia) From Robot Choreography to Motion Analysis: Symmetry, Calibration, and Visual-Command-Based Control in Two-Robot Coordination		
10:40 – 11:10	Coffee Break			
11:10 – 12:50	Parallel Sessions (7-9)			
	Robotic Platforms, Simulation and Software Room: 01, Chair: TBA	Robot Design, Materials and Manufacturing Room: 03, Chair: TBA	Cyber-Physical Security, Forensics and Privacy Room: 04, Chair: TBA	
11:10 – 11:30	M. Vukšić, S. Zorica, T. Kovačević, P. Đukić (University of Split, University Department of Professional Studies, Split, Croatia) An Autonomous Underwater Vehicle (AUV) as a Research and Development Platform	A. Sarajlić, F. Hadžikadunić (University of Zenica, Zenica, Bosnia and Herzegovina) Structural Robustness of AI-Generated Robot Parts Under Manufacturing Variability	Z. Jakovljevic, D. Nedeljkovic (University of Belgrade, Faculty of Mechanical Engineering, Belgrade, Serbia), M. Pajic (Duke University, Durham, United States) The Effect of Time-Delay Cyber-Attacks on the Achieved Trajectory of Cartesian Robots with Distributed Control	
11:30 – 11:50	F. Šijak, M. Melinščak (Zagreb University of Applied Sciences, Zagreb, Croatia) A Modular ROS2-Based Robotic Platform for Autonomous Indoor Navigation and Inspection	I. Šantak, T. Uroić (Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia), J. Ivošević, K. Krajčec Nikolić (Faculty of Transport and Traffic Sciences, Zagreb, Croatia) Influence of Material Selection and Print Orientation on the Centrifugal Strength of 3D-Printed Drone Propellers	N. Nelufule, T. Singano, D. Shadung (Council for Scientific and Industrial Research, Pretoria, South Africa) Blockchain-Enabled Digital Forensic Framework for Secure Digital Forensic Evidence Management in Cyber-Physical Robotic Systems	
11:50 – 12:10	M. Vagač, P. Voštinár, R. Kubík, M. Povinský (Matej Bel University, Banská Bystrica, Slovakia) Deploying ROS 2 on a Raspberry Pi-Powered	E. Kamenar, T. Bazina, D. Liović, J. Srnc Novak (University of Rijeka, Faculty of Engineering, Rijeka, Croatia), A. Šegota (Clinical Hospital Centre Rijeka, Rijeka, Croatia), L. Došen, J.	A. Raza, P. Peer (Faculty of Computer and Information Science, University of Ljubljana, Ljubljana, Slovenia), V. Štruc (Faculty of Electrical Engineering, University of	

	<i>AlphaBot2 Mobile Robot</i>	Pelić (University of Rijeka, Faculty of Engineering, Rijeka, Croatia), I. Mezić (University of California, Santa Barbara, Santa Barbara, United States) <i>Bridging Rehabilitation Requirements and Soft Robotics: Concept and Design of a Pneumatic Assistive Device</i>	Ljubljana, Ljubljana, Slovenia), P. Rot (Faculty of Computer and Information Science, University of Ljubljana, Ljubljana, Slovenia) <i>Human-Machine Gender Perception in Soft-Biometric Privacy Enhancement</i>	
12:10 – 12:30	E. Rogina (University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia), T. Mamić (Končar - Electrical Engineering Institute, Zagreb, Croatia), L. Petrović (University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia) <i>A Bridge between GrapOS Embedded Applications and ROS 2 for Simulation-Based Testing</i>	J. Piškur, J. Zagorjan (Rudolfovo - Science and Technology Center Novo mesto, Novo mesto, Slovenia), N. Skoporc, K. Žagar Soderžnik, S. Šturm (Institut "Jožef Stefan", Ljubljana, Slovenia), V. Longar (Rudolfovo - Science and Technology Center Novo mesto, Novo mesto, Slovenia) <i>Development of Dedicated Robotic Gripper Holders and Laboratory Interfaces for an Autonomous Laboratory</i>	N. Nelufule, J. Mtsweni (Council for Scientific and Industrial Research, Pretoria, South Africa), S. Mtsweni (University of South Africa, School of Computing, Pretoria, South Africa) <i>Forensic-Aware and Explainable Residual Digital Twin Framework for Cybersecurity Decision Support in Robotic and Mechatronic Systems</i>	
12:30 – 12:50	T. Barić, K. Lenac (University of Rijeka, Faculty of Engineering, Rijeka, Croatia) <i>An Independent Empirical Characterisation of the Distance-Dependent Discrepancy between a Physical ZED X and the Stereolabs Virtual-ZED/Isaac Sim Pipeline under One Controlled Planar-Target Configuration</i>			
13:00 – 14:00	Lunch Break			

Friday, 11 September 2026		
Time	Event	Venue
14:30 – 15:00	Registrations	University of Zadar SEP Building Ground Floor Room 01  Ulica Šime Vitasovića 1, Zadar
14:30 – 17:00	Sponsor exhibition area (display panels, brochures and exhibits) in the foyer of the SEP Building	
15:00 – 16:00	Invited Lectures Room: 01, Chair: TBA	
15:00 – 15:30	Invited Lecture (4) Marko Švaco (University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) Applied robotics and AI at CRTA: From science to industrial innovation	
15:30 – 16:00	Invited Lecture (5) Tomislav Staroveški (University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia) Advances in Robotic Sanding and Polishing Systems	
16:00 – 16:30	Professional Lectures	
16:00 – 16:15	Danijel Barjašić (Chiron Croatia, Zadar, Croatia) Smart spindles and AI	
16:15 – 16:45	Coffee Break with Discussion	
16:45 – 17:00	Conference Closing	

17:00 – 18:00	Special Public Event	University of Zadar The Old Campus The Great Hall  Obala kralja Petra Krešimira IV, 2, Zadar
17:00 – 18:00	From Walking to Dancing Showcase of the locomotor capabilities of humanoid robots Tonka and Jože with their robot dog. Note: This separate public event is a part of the MULTISTEM project.	

19:00	Bus transfer (Zadar Peninsula → Konoba Kraljevski Vinogradi, Petrčane)	 TBA
19:30 – 23:30	Conference Dinner Konoba Kraljevski Vinogradi , Petrčane	 Ulica XIII br. 10, Petrčane
23:30	Bus transfer (Konoba Kraljevski Vinogradi, Petrčane → Zadar Peninsula)	 Ulica XIII br. 10, Petrčane

	Saturday, 12 September 2026	
Time	Event: Robot-Drone Demo Convoy	Venue
08:00 – 09:30	Preparations	
08:00	Gathering of participants at Sailing Club Uskok*	 Obala kneza Trpimira 55, Zadar
08:15	Welcome address and presentation of the programme	
08:30	Celebration of the 30th anniversary of the ELMAR University Regatta and memorial video screening	
08:45	Presentation of the MARBLE, MULTISTEM and ROBONETCBC projects	
09:00	Preparation for departure and distribution of trip packages	
09:30 – 11:00	Robot-Drone Demo Convoy	At sea
09:30 – 11:00	Departure and Sailing in the Zadar Archipelago	
11:00 – 17:00	Kukljica Event	Kukljica (Island of Ugljan)
11:00	Mooring at the transit quay in Kukljica Marina (Island of Ugljan)	
11:30	Demonstration of Autonomous Systems at Sea and in the Air	
13:00	Land-Based Demonstration and Exhibition	
14:00	Open-Air Public Discussion: Vision for the Future Development of Robotics and Artificial Intelligence	
15:00	Social gathering and reception with music on the terrace of Café Jadran	
17:00	Departure and sailing towards Sailing Club Uskok	At sea
19:00 – 22:00	Joint Dinner and Social Gathering @ Sailing Club Uskok (JK Uskok)	 Obala kneza Trpimira 55, Zadar
19:00	Joint dinner	
20:00	Social gathering and entertainment	

* For participants travelling to Uskok from the Peninsula, transport by the tourist boat Trn will be organised, departing from the [Zadar Riva Ferry Pier](#) at 07:45 (TBC).

Conference and Convoy Co-Organisers



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