



(<https://erf2022.eu>)

PROGRAMME



ERF 2022 PROGRAMME

27 JUNE

28 JUNE

29 JUNE

30 JUNE

1 JULY

PROGRAMME 27 JUNE:

Mon 27 JUNE	For ERF participants	For euRobotics members
13.30 – 17.00	Registration European Robotics Forum	Registration for euRobotics General Assembly
14.00 – 17.30		euRobotics General Assembly* AHOY Convention Center Rotterdam
17.00 – 19:00	Industry /Exhibition & Sponsors Networking Reception** at the Executive Lounge in AHOY Convention Center Rotterdam by sponsor Pal-Robotics	euRobotics members who have participated in the General Assembly are welcome at the Industry /Exhibition & Sponsors Networking Reception at the Executive Lounge in AHOY Convention Center Rotterdam

	18.00 – 18.15: Official opening
19:00	End Industry /Exhibition & Sponsors Networking Reception

* Only for euRobotics members

** Industry /Exhibition & Sponsors Networking Reception is open to Sponsors and Exhibitor from the European Robotics Forum and for their invitees. Each sponsor/ exhibitor will receive a number of free tickets to distribute among their own network.

PROGRAMME 28 JUNE:

Tue 28 JUNE	PORT 1	DOCK 10	DOCK 15	DOCK 14	DOCK 12	DOCK 11
07:00 – 08:30	<p>Live Health session Total Body Strength @ AHOY Convention Center Rotterdam Our Total Body Strength class focuses on building strength physically, mentally and creatively. No equipment is required. This class is provided to you by our Health Sponsor, Intrinsic (https://erf2022.eu/programme/?elementor-preview=234&ver=1654192074#intrinsic-popup). Meeting ID: 81984276111 Password: 628646 https://us02web.zoom.us/j/81984276111?pwd=977umf1_X4xi4MYXr9I-V85Vs1QytY.1. (https://www.google.com/url?q=https://us02web.zoom.us/j/81984276111?pwd%3D977umf1_X4xi4MYXr9I-V85Vs1QytY.1&sa=D&source=calendar&ust=1656314486868742&usg=AOvVaw3umb_VzrJNAtRUcsW7RFcs)</p>					
08:30 – 09:50	ROBOTICS AND AI / DATA	AUTOMOMY /COLLABORATIVE AND	HEALTHCARE	REGULATION AND STANDARDISATION	SPECIFIC OPERATING ENVIRONMENTS	SOFTWARE AND SYSTEMS
	<i>Can a Lab Robot win a Nobel prize? Towards the Nobel Turing Challenge</i>	<i>Cloud Robotics: Stepping out of the lab and into the wild</i>	<i>Towards transferring robotic technology and innovation to patients</i>	<i>Standardisation in robotics and cognate fields of AI and Big Data</i>	<i>Opportunities and challenges of AI in marine robotics</i>	<i>Topicgroup Software & Systems Engineering in Robotics</i>
	Radhika Gudipati	Stratos Arampatzis	Francoise Siepel	Paolo Barattini	Gabriele Ferri	Christian Schlegel
09:50 – 10:20	COFFEE AND TEA BREAK/POSTER SESSION at the exhibition floor					
10:00 – 16:00	DOCK 6 (2nd floor) – On-site ERF matchmaking event (https://erf-matchmaking-2022.b2match.io/), hosted by Enterprise Europe Network and euRobotic					
10:20 – 11:40	ELSE	AGRI-FOOD	HEALTHCARE	BENCHMARKING AND COMPETITIONS	SPECIFIC OPERATING ENVIRONMENTS	ACADEMIC TRACK
	<i>The Reluctant Entrepreneur: Why should I start a robotics company?</i>	<i>Applying collaborative mobile robots in agriculture</i>	<i>Robotic technology leading to better healthcare for all</i>	<i>AI & Robotics benchmarking: towards harmonized evaluation strategies</i>	<i>Miniaturised Robotics Forum 2022</i>	<i>On Decisional issues for Human-Robot Joint Action</i>

	<i>Geoff Pegman</i>	<i>Kees Lokhorst</i>	<i>Françoise Siepel</i>	<i>Agnes Delaborde</i>	<i>Quan Zhou</i>	<i>Rachid Alami</i>
11:40 – 12:00	PORT 1 – OFFICIAL OPENING EUROPEAN ROBOTICS FORUM by euRobotics President, Dr. Bernd Liepert & Vice President research /Local chair Prof.dr.ir. Stefano Stramigioli					
12:00 – 13:00	PORT 1 – PLENARY 1 – Sustainable Science related to Climate change; HowRobotics could impact climate change by <i>Joni Rautavuori</i> (CEO Tharsus), <i>Susan Frame</i> (Global Marketing Director at Castrol) and <i>Elinor Doubell</i> (VP Digital Science for BP)					
13:00 – 14:20	LUNCH at the exhibition floor					
14:20 – 15:40	ROBOTICS AND AI / DATA	SUSTAINABILITY	HEALTHCARE	MAINTENANCE AND INSPECTION	AWARDS	ACADEMIC TRACK
	<i>AI for Agile Automation Adoption – Opportunities and challenges</i>	<i>Application of Robotics in Sustainability and Environmental aspects</i>	<i>Towards social robotics in healthcare</i>	<i>From one-off deployments to I&M robotics in continuous operation</i>	<i>TechTransfer Award pitches</i>	<i>Reconfigurable Robots for Soft Interactions</i>
	<i>Karol Janik</i>	<i>Sharath Chandra Akkaladevi</i>	<i>Marian Hurmuz</i>	<i>Aksel Transeth</i>	<i>Werner Kraus</i>	<i>Jamie Paik</i>
15:40 – 16:10	COFFEE AND TEA BREAK at the exhibition floor					
16:10 – 17:30	AWARDS	SUSTAINABILITY	HEALTHCARE	ROBOTICS AND AI / DATA	SPECIFIC OPERATING ENVIRONMENTS	AUTOMOMY /COLLABORATIVE AND CLOUD
	<i>PhD award pitches</i>	<i>Industrial Robots and Sustainability</i>	<i>Level of autonomy in healthcare robotics – How far should we go?</i>	<i>Applied AI in agile production, logistics and lab automation</i>	<i>Intelligent Aerial Robotics for Urban Air Mobility and Logistics</i>	<i>Telerobotics – Together Beyond Future Horizons</i>
	<i>Gianluca Antonelli</i>	<i>José Saenz</i>	<i>Andrea Schwier</i>	<i>Michael Suppa</i>	<i>Anibal Ollero</i>	<i>Daniel Leidner</i>
17:30 – 18:00	<i>Walk-In ERF Welcome Reception / drinks already available</i>					
17:30 – 19:30	<i>ERF Welcome Reception</i>					
18:00 – 18:05	<i>Official opening Welcome reception by Sponsor Castrol</i>					
18:05 – 18:15	<i>Energizer by Olympier Patrick van Luijk en start Charity Run</i>					
19:00	<i>Last runners charity run at the finish</i>					

PROGRAMME 29 JUNE:

Wed 29 JUNE	PORT 1	DOCK 10	DOCK 1515	DOCK 14	DOCK 12	DOCK 11
07:00 – 08:00	DOCK 14 – iTanks workshop (including breakfast) on 'Robotics and occupational safety' The breakfast session discusses the introduction of new safety legislation for advanced machinery, including robots and cobots. We will briefly discuss the potential implications of the Machine Regulation and the AI regulation and do a quick workshop on safety analysis for a cobot. Then we will have some time for a discussion on the impact of said future legislation.					
07:00 – 07:30	Live Health session Yoga Flow @ AHOY Convention Center Rotterdam Experience balance, strength, and flexibility as you link breath to mindful movement in a sequence of yoga poses. Well-rounded classes infused with core strength, deep stretching, and breath awareness. Our lighthearted teaching style sets the tone for an empowering and joyful experience that will have you step off the mat feeling centered and rejuvenated. This class is provided to you by our Health Sponsor, Intrinsic. Meeting ID:870 3339 5233 Passcode: 809333 https://us02web.zoom.us/j/87033395233?pwd=b2s8getpvK54Ju3QYtHvqEJkrQfpwD.1 (https://us02web.zoom.us/j/87033395233?pwd=b2s8getpvK54Ju3QYtHvqEJkrQfpwD.1)					
08:30 – 09:50	XX	CONSTRUCTION	BENCHMARKING AND COMPETITIONS	AGRI-FOOD		
	xx	<i>Construction Robotics – from Start-Ups to Contractors</i>	<i>Progress in reproducibility of robotics research and benchmarking</i>	<i>AI and robotics in agri- food: the present and the future</i>		
	xx	Sigrid Brell-Cokcan	Diego Torricelli	Gizem Bozdemir		
08:45 – 09:50	PORT 1 – PLENARY 2 – Self- sustaining networks; Working together to boost competitiveness, societal wellbeing and environmental aspects					
09:50 – 10:30	A Future with Avatar robots at the exhibition floor					
09:50 – 10:30	HANDS ON SESSION	SUSTAINABILITY	ELSE	REGULATION AND STANDARDISATION	FUNDING OPPORTUNITIES	CYBERSECURITY
	<i>Have you ever touched a robot? Try it out!</i>	<i>Social Robots: The Duality of Sustainability and Societal Applications</i>	<i>AI and Robotics in Vulnerable Groups. Societal and Ethical Issues</i>	<i>Policy issues in Robotics for Infrastructure & Maintenance</i>	<i>The importance of consortium building</i>	<i>Cybersecurity for Robotics</i>
	Carlos Vivas	Amit Kumar Pandey	Slawomir Tobis	Agnes Delaborde	Christiaan Mennes	Ulrich Seldeslachts
10:30 – 11:00	COFFEE AND TEA BREAK/POSTER SESSION at the exhibition floor					
11:00 – 11:40	A Future with Avatar robots at the exhibition floor					
11:00 – 11:40	<i>Have you ever touched a robot? Try it out!</i>	<i>Social Robots: The Duality of Sustainability and Societal Applications</i>	SOFTWARE AND SYSTEMS	<i>Industry experience with healthcare standards</i>	<i>Art-driven Innovation in Robotics (with S+T+ARTS)</i>	<i>Cybersecurity for Robotics</i>
			<i>Robot software verification as a key for safe and secure applications</i>			

	Carlos Vivas	Amit Kumar Pandey	Michael Rathmair	Dr. Michael Obach	Miha Tursic	Ulrich Seldeslachts
11:40 – 13:00	INNOVATION AND B2B	STRATEGIC SESSION	SAFETY	NOVEL APPLICATIONS	AWARDS	ACADEMIC TRACK
	<i>DIH-HERO Success Stories of Innovation Coaching and Matchmaking</i>	<i>Alliances – 100 days euRobotics – Claire</i>	<i>Getting to know you – AI meets Safety</i>	<i>Earth and beyond: Sustainable Living – Sustaining Life</i>	<i>ERF Entrepreneurship Award</i>	<i>Legged mobility on the rise</i>
	Maren Bödding		José Saenz	Juha Röning	Oliver Pedersen	Marco Hutter
13:00 – 14:20	LUNCH at the exhibition floor					
13:45 – 14:15	Interactive workshop Origami Making with better Factory at the Exhibition Floor					
14:00 – 17:00	IMC Weekendschool Kids college					
14:20 – 15:20	PORT 1 – PLENARY 3 – How Sustainable integration of Technology can lead to future proof adaptation and mitigation in society by Prof.Dr.Ir. Peter-Paul Verbeek (University of Twente) and Martijn Boelens (CTO Lely)					
15:20 – 15:50	COFFEE AND TEA BREAK at the exhibition floor HOME (HTTPS://ERF2022.EU/PROGRAMME/) PROGRAMME REGISTER SPONSORS & EXHIBITORS TRAVEL AND STAY CONTACT					
15:50 – 17:10	AUTOMOMY /COLLABORATIVE AND CLOUD	AGRI-FOOD	ROBOTICS AND AI / DATA	INNOVATION AND B2B	NOVEL APPLICATIONS	ACADEMIC TRACK
	<i>Interactive Remote Education of Smart Industrial Robots</i>	<i>Applying Information Modeling for Robotics of Sustainable Agriculture</i>	<i>The need of AI AND Robotics</i>	<i>DIH as driver for innovative experimentation: The RIMA Network case</i>	<i>Humanoid & legged robots: future expectations</i>	<i>Interactive and environment - aware flying robots</i>
	Sakari Pieskä	Juha Röning	Niki Kousi	Juan Antonio Pavón Losada	Francesco Ferro	Roland Siegart
18:00 – 18:30	Walk-in ERF Conference Dinner					
18:30 – 19:00	Official opening ERF Conference Dinner & Entrepreneur Award, Georges Giralt Ph.D. Award and Technology Transfer Award Ceremony					
19:00 – 22:00	ERF Conference Dinner provided by our Platinum Sponsor Saxion (https://erf2022.eu/sponsors-exhibitors/#sponsors)					
21:00 – 21:30	Intermezzo between main course and dessert by Matt Parker. Hand over cheque with amount Charity Run for IMC Weekendschool.					
22:00 – 00:00	ERF2022 After Party					
00:00	End					

PROGRAMME 30 JUNE:

Thu 30 JUNE	PORT 1	DOCK 10	DOCK 15	DOCK 14	DOCK 12 DOCK 12	DOCK 11
07:00 – 07:30	Live Health session Total Body Recovery @ AHOY Convention Center Rotterdam The ultimate tune-up for your body. This class will improve overall joint health and work to alleviate soreness and pain. Join our instructor as they guide you through their proven process to increase range of motion, movement fluidity, and resilience. This class is provided to you by our Health Sponsor, Intrinsic. Meeting ID: 817 1934 8579 Password: 743274 https://us02web.zoom.us/j/81719348579?pwd=3OVMSZzFKJlhrXElmnz4N5fqq_xXrr.1 (https://us02web.zoom.us/j/81719348579?pwd=3OVMSZzFKJlhrXElmnz4N5fqq_xXrr.1)					
07:00 – 08:30	DOCK 14 – BREAKFAST SESSION: LSH010 breakfast					
08:30 – 09:50	ELSE	SUSTAINABILITY	SUSTAINABILITY	AGILE PRODUCTION	SPECIFIC OPERATING ENVIRONMENTS	INNOVATION AND B2B
	<i>The drive towards integration of Robot Companions in future societies</i>	<i>Maintenance and Inspection: Smart drone swarms for enhanced infrastructure inspection (H2020 Drones4Safety project)</i>	<i>Robotics for Sustainability – Manufacturing of Sustainable Robots</i>	<i>9th Workshop on Hybrid Production Systems – Part 1</i>	<i>Challenges facing robotic autonomy in harsh environment applications</i>	<i>DIH robotics networks: Success Stories and collaborative approaches</i>
	Paolo Dario	Emad Samuel Malki Ebeid	Franziska Kirstein	Sotiris Makris	Ladislav Vargovcik	Marta Palau Franco
09:50 – 10:20	COFFEE AND TEA BREAK/POSTER SESSION at the exhibition floor					
10:20 – 11:40	INNOVATION AND B2B	CONSTRUCTION	AGILE PRODUCTION	AGILE PRODUCTION	SPECIFIC OPERATING ENVIRONMENTS	ACADEMIC TRACK
	<i>DIH robotics networks: lessons learned, impact and the way forward</i>	<i>Sustainable Digital Infra Construction Robotics</i>	<i>Mobile Manipulators – the Gap between Reality and Expectation</i>	<i>9th Workshop on Hybrid Production Systems – Part 2</i>	<i>Is there Artificial Intelligence in SPACE (robotics)?</i>	<i>Compliance and Oscillations in Robotics – on Bad and Good Vibrations</i>
	Maurits Butter	Rauno Heikkilä	Mathias Brandstötter	Sotiris Makris	Miguel Olivares- Mendez	Alin Albu-Schäffer
11:40 – 12:40	PORT 1 – PLENARY 4 – Sustainable education: How re- thinking engineering education, quality education and lifelong learning opportunities contribute to sustainable education by Aldert Kamp (Co-director CDIO) and Nico Zimmermann (Head of SICK Sensor Intelligence Academy)					
12:40 – 13:50	LUNCH at the exhibition floor – exhibition floor open					
13:50 – 14:30	PORT 1 – ERF Feedback session – Rich Walker					
14:30 – 15:50	INNOVATION AND B2B	INNOVATION AND B2B	AGRI-FOOD	SAFETY	SPECIFIC OPERATING ENVIRONMENTS	ACADEMIC TRACK

	<i>Sustainability of DIHs</i>	<i>Open Pilot facilities for robotics development</i>	<i>Challenges in Robotics for Food Processing</i>	<i>TG-Safety – Challenges and Innoations</i>	<i>Robotics Technology for Search & Rescue Applications</i>	<i>Mathematics for Robotics</i>
	Andras Czmerk	Iñaki Maurtua	Steven Ross	José Saenz	Claudio Paliotta	Frederic Schuller

PROGRAMME 1 JULY:

09:15 – 12:15	Site Visit Lely Farm Schipluiden (registration obligatory). More information at Programme – European Robotics Forum 2022 (erf2022.eu)
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