Robotics-4-Labautomation Symposium: for the smart digitalised lab of the future

The event invites all labautomation and robotics experts from research and industry, who want to network and exchange ideas with scientists and industry representatives from all over Europe.

Join now. Admission is free for all participants. Registration required: https://podio.com/webforms/19161744/1289964

Programme 25.05.2023

time	
09.00	Registration & networking
09.30	Welcome
	Session 1: The TraceBot project
09.45	**Overview of the Tracebot project: goals and accomplishments** Dr. Anthony Remazeilles, Fundación TECNALIA research & innovation
10.05	**See the TraceBot in action: video presentation** Ben Gordon, Astech Projects
10.30	Coffee break & networking

11.00	**Object Recognition for Laboratory Automation** Prof. Markus Vincze, TU Wien
11.25	**Robotic gripper design and challenges** Dr. Mathieu Grossard, CEA
11.50	**The digital twin** Prof. Michael Beetz, University of Bremen
12.15	Lunch break & networking
	Session 2: Qualification and validation in sterile environment
13.15	**Keynote speech** **Regulatory considerations on automation from a pharmaceutical microbiology perspective** Prof. Isabelle Bekeredjian-Ding, Paul-Ehrlich-Institut Federal Institute for Vaccines and Biomedicines
13.35	**Panel discussion:** **qualification and validation in the pharmaceutical industrie** Jens Auer, Stäubli Tec-Systems GmbH Prof. Isabelle Bekeredjian-Ding, Paul-Ehrlich-Institut Federal Institute for Vaccines and Biomedicines Lukas Lautenschläger, Takeda Markus Roemer, comes compliance services
14:15	Coffee break & networking

	Session 3: Challenges and requirements for robot integration in the lab
14.45	**A 2D-drone swarm system for sample transfer** Edy Mariano, École polytechnique fédérale de Lausanne
15.05	**Robot integration and pharmaceutical quality control from the perspective of the applying industry** Philipp Seitz, Vetter Pharma
15.25	**Implementation challenges of a vision-based pick-and-place robot application in laboratory environment** Dr. Peter Galambos, Óbuda-Universität Ungarn
	Session 4: Robotic ideas of tomorrow - research topics and trends of the future
15.45	**Unveiling the Invisible: Advancements in transparent Object Detection and Pose Estimation** Hrishikesh Gupta, TU Wien
16.00	**Hardware interface standardization and cloud infrastructure: The road to rapid integration of lab instruments and robots** Lukas Bromig, TU München / UniteLabs AG
16.15	**Perception through Cognitive Emulation** Franklin Kenghagho Kenfack, University of Bremen
16.30	**Robot social maturity measurement - for a wider acceptance of robots in Europe** Anne Kalouguine, LNE, for the Robotics4EU project
16:45	**Funding support for lab automation projects – collaboration and beyond** Dr. Patrick Courtney, Topic group leader, analytical laboratory robotics with euRobotics
17.05	Closing remarks
17.15	End of event

The event is part of the TraceBot project, that receives funding from the European Union's H2020-EU.2.1.1. INDUSTRIAL LEADERSHIP programme. The goal of the TraceBot project is to develop laboratory robots that fulfil the criterion of traceability and are thus suitable for the use in laboratory environments as well as other fields of application with high safety and flexibility requirements.

The partners of the TraceBot project will be present at the symposium and will be available for questions and networking.

All interested parties such as researchers, entrepreneurs, start-ups, students, PhD students and other experts from the fields of laboratory automation and robotics are cordially invited.

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