Robotics-4-Labautomation Symposium

for the smart digitalised lab of the future

TRACEBOT

Traceable Robotic Handling of Sterile Medical Products

Programm: 25.05.2023 Konzil Konstanz, Germany

Session 1:	The TraceBot project
Session 2:	Qualification and validation in sterile environment
Session 3:	Challenges and requirements for robot integration in the lab
Session 4:	Robotic ideas of tomorrow - research topics and trends of the future

More info about the TraceBot project

The event is part of the TraceBot project that receives funding from the European Union's H2020-EU.2.1.1. INDUSTRIAL LEADERSHIP programme

European Commission

09.00 Registration, Networking
09.30 Welcome || Maike Neumann, BioLAGO e.V. & Dr. Anthony Remazeilles, TECNALIA

Session 1: The TraceBot project

09.45 Overview of the Tracebot project || Dr. Anthony Remazeilles, TECNALIA
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. Dr. Markus Vincze, Technische Universität Wien
11.25 Robotic gripper design and challenges || Dr. Mathieu Grossard, CEA
11.50 The digital twin || Prof. Dr. Michael Beetz, Universität Bremen
12.15 Lunch break & networking

Session 2: Qualification and validation in sterile environment

13.15 Regulatory considerations on automation from a pharmaceutical microbiology perspective || Prof. Dr. Isabelle Bekeredjian-Ding, Paul-Ehrlich-Institute, Federal Institute for Vaccines and Biomedicines
13.35 **Panel discussion**: qualification and validation in the pharmaceutical industrie || Prof. Dr. Isabelle Bekeredjian-Ding, Paul-Ehrlich-Institute, Federal Institute for Vaccines and Biomedicines || Jens Auer, Stäubli Tec-Systems GmbH || Markus Roemer, comes compliance services || Lukas Lautenschläger, Takeda GmbH
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-Fertigung GmbH & Co. KG
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 Advancements in transparent Object Detection and Pose Estimation || Hrishikesh Gupta, Technische Universität Wien
16.00 Hardware interface standardization and cloud infrastructure || Lukas Bromig, Technische Universität München / UniteLabs AG
16.15 Perception through Cognitive Emulation || Franklin Kenghagho Kenfack, Universität 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