

Fakultät für Naturwissenschaften und Technik Facoltà di Scienze e Tecnologie Faculty of Science and Technology





Field Robotics South-Tyrol lab

Workshop and Open Lab on FIED ROBOTICS

Interdisciplinary aspects of robotics and its applications in outdoor scenarios

01.07.2021 | 13:30 – 19:30 NOI Techpark A1 and B5

Prof. Renato Vidoni and Prof. Karl von Ellenrieder | event@unibz.it

The FiRST Lab as well as this workshop are funded by the European Regional Development Fund (ERDF) Investment for Growth and Jobs Programme 2014-2020 Autonomous Province of Bozen-Bolzano (I)







The workshop on Field Robotics is a forum for discussion on Field Robotics, where experts share and discuss their latest results, current trends and novel ideas in the area of robotics for Field Activities. The emphasis of contributions is on interdisciplinary aspects of robotics and its applications in outdoor scenarios considering, in particular, the South-Tirolean context. Technologies and research fields presented in the event are also linked to the newly established FiRST – Field Robotics South-Tyrol Laboratory of the Free University of Bozen-Bolzano at NOI Techpark. During the workshop, the newly constructed FiRST Lab will be presented via an open-lab/demo session and inaugurated with an aperitif.

13:30 - 14:00	Registration
14:00 - 14:15	Welcome and workshop opening R. Vidoni and K. Von Ellenrieder – Free University of Bozen-Bolzano
14:15 – 14:30	NOI Techpark and the Automotive/Automation Ecosystem Dr. J. Brunner, head of TechTransfer Automotive/Automation unit – NOI Techpark
14:30 - 14:50	Mattro ROVO: the Compact Powerhouse B. Knaus/A. Bauer – Mattro GmbH (www.mattro.com)
14:50 - 15:10	Advanced Mobile Robotics Applications Dr. A. Giusti, head of RISE at Fraunhofer Italia (www.fraunhofer.it)
15:10 - 15:30	KNECHT4.0 and Energy Storage C. Frei – BerMarTec/Knecht (www.bermartec.com)
15:30 – 15:50	Computational Design of Legged Robots with Numerical Optimal Control Dr. A. Del Prete – University of Trento (www.unitn.it)
16:10 - 16:30	Innovative Digitech Solutions for Agrofood and Smart Farming Dr. G. Ristorto – MavTech (www.mavtech.eu/it/)
16:30 - 16:50	Reference Tracking with Hybrid Obstacle Avoidance for Unicycle Models Prof. L- Zaccarian – University of Trento (www.unitn.it)
16:50 - 17:10	Thorvald – a Modular Multipurpose Robot for Agriculture Dr. P. J. From – SAGA Robotics (sagarobotics.com/)
17:10 - 17:30	Making Robots Learn to Perceive and Act with Understanding Profs. J. Piater, M. Saveriano, A. Agostini – University of Innsbruck (www.uibk.ac.at)
17:30 - 17:50	TOMMIE: Automating Crop Load Management in Apple Orchards Dr. E. Bruni – Aigritec (www.aigritec.com)
17:50 - 18:00	Closure of the workshop R. Vidoni and K. Von Ellenrieder – Free University of Bozen-Bolzano
18:15- 19:00	FiRST – Field Robotics South-Tirol Laboratory presentation and open-lab R. Vidoni and K. Von Ellenrieder – Free University of Bozen-Bolzano
19:00 pm	Stay together / Aperitif

NOI TECHPARK

For guests attending in presence the number of places is limited and will be given on a "first come, first served" basis, so you are kindly invited to register early if you would like to attend the event. Access is possible only with CoronaPass or valid negative test.*