



AGRI-AUTOMATION – AUTOMATION IN AGRICULTURE

Thursday, 07.03.2024 | 9:00 – 16:00
NOI Techpark Bolzano, Seminar Room 1

The right action in the right place at the right time: Intelligent systems and automated processes are playing an increasingly important role also in agriculture.

What is the focus of research in precision farming? What results have already been achieved and what are the concrete application examples? Innovative approaches in plant cultivation in the Alpine region will be the main topic of the event on 7 March 2024 at the NOI Techpark Bolzano: researchers and South Tyrolean companies and start-ups will provide insights into the state of the art, current developments and future trends in the form of keynotes, presentations and lab visits.

The event is aimed at companies in the sectors agricultural machinery, electronics, and automation, as well as R&D institutions, and will provide an opportunity for dialogue and networking. Guided tours of the new laboratories of the Free University of Bozen-Bolzano will also be offered.

PROGRAMME

08:30 **Check-in & Welcome Coffee**

09:00 **Greetings**

Vincent Mauroit, Director of Innovation & Tech Transfer, NOI Techpark [ITA]

Walter Guerra, Head of Institute, Fruit and viticulture, Research Centre Laimburg [GER]

Paolo Lugli, Rector, unibz [ITA]

SESSION: KEY NOTES

09:15 **Agri- Automation as an Approach for a Sustainable Development of Agriculture**

Michele Mattetti, Professor of Agricultural Mechanization, University of Bologna [ITA]

09:45 **Technologies to Determine Food Quality**

Federico Giudiceandrea, Microtec/Biometric [GER]

SESSION: USE CASES 1

10:15 **Resource Optimization by Homogenization of Agricultural Fields**

Hermann Katz, Joanneum Research [GER]

10:35 **Innovating Alpine Agriculture: Recent and Future R&D Advancements in Precision Pest and Diseases Identification through Intelligent Sensors and Traps**

Roberto Monsorno, Eurac Research, Center for Sensing Solutions [ITA]

10:55 **Coffee Break & Networking**

SESSION: USE CASES 2

11:20 **Drone Applications in Agriculture**

Gianluca Ristorto, MAVTech [ITA]

11:40 **The Internet of Things in Agriculture**

Christian Stolcis, Feldfühler [GER]

12:00 **Environmental Simulators for Agriculture and Insect Traps**

Giovanni Giannotta and/or Elena Alina Ignatescu, Piano Green [ITA]

12:20 **Autonomous Operations in Off-Highway: How to Address this Technical and Organizational Challenge**

Roberto Ferrari, TT Control [ITA]

12:40 **E-Mower for Steep Terrains**

Gerald Reichegger, Xelom [GER]

13:00 **Outdoor Robotics by Fraunhofer Italia**

Michael Terzer, Fraunhofer Italia [GER]

13:20 **Lunch & Networking**

SESSION: UNIBZ LAB VISITS AND USE CASES

14:30 **Agroforestry Innovation Lab**

Fabrizio Mazzetto, Professor of Agricultural Machinery, unibz [ITA]

Giovanni Carabin, Ass. Prof. in Agricultural Machinery, unibz [ITA]

15:15 **Field Robotics Lab: Perception, Control and Action for Agro-Forestry Applications**

Renato Vidoni, Professor of Mechatronics and Robotics, unibz [ITA]

Marco Camurri, Ass. Prof. of Systems and Control Engineering, unibz [ITA]

16:00 **Closing, Aperitivo**

The conference will be held in German and Italian with simultaneous translation.

The last session with lab visits will not be translated.

REGISTRATION

Register [here](#) until 06.03.2024

CONTACT

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