

From Collaborative Industrial Robots to Safe Applications

Dr. Walter Wohlkinger, CEO and Co-Founder of Blue Danube Robotics

Location:

automatica Forum
hall A5, stand 135

Day and time:

Friday, 22nd June 2018
12:00 – 1:30 p.m.

Dr. Wohlkinger presents challenges and opportunities that manufacturers are facing while implementing safe applications with collaborative industrial robots.

The range of cobot applications is increasing rapidly. Cobots are exceeding initial expectations in terms of payload, speed, usability/operational concept and variety of robot models. Practical experience shows a lack of genuine collaborative applications, as the majority of applications is aiming towards fenceless coexistence between humans and robots in a shared workspace.

Within this spectrum of cobot applications we find industrial robots with a payload of 150 kg as well as cycle time optimized lightweight cobots. These applications have in common that they rely on holistic safety solutions to be collaborative. Such solutions integrate gripper, work piece, flange, sensors, cables as well as control elements and thus simplify risk assessment.

Speaker

Dr. Walter Wohlkinger, Blue Danube Robotics

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| 2015 | CEO and Co-Founder of Blue Danube Robotics GmbH, Vienna.
Safety for industrial robotics. |
| 2013 | CEO and Co-Founder of Blue Danube Robotics OG, Vienna
Service robotics. |
| 2012 | Doctoral studies, Vienna University of Technology, Automation and Control Institute,
Vision for Robotics Group. PhD-Thesis: “Grasping Categories” |
| 2007 | Master in Computer graphics & Digital Image processing, Vienna University of Technology. |
| 2012 – 2013 | Postdoc, Team-Leader: EU-Project “Hobbit“, Object categorization, mobile manipulation |
| 2010 – 2012 | Project Assistant and Researcher: EU-Project “Grasp“, Grasping objects with Kuka iiwa. |
| 2007 – 2010 | Project Assistant and Researcher: EU-Project “robots@home“, Furniture classification |

About Blue Danube Robotics

Blue Danube Robotics was founded in 2013 when Walter Wohlkinger, Andreas Baldinger, Tobias Ferner and Michael Zillich met at Vienna University of Technology. Their creative solutions and interest in intriguing problems has driven them to tackling one of today’s biggest challenges in robotics: human–robot collaboration.

With their patented safe collision sensor AIRSKIN, Blue Danube Robotics is changing the way we think about human–robot collaboration. Simple, safe, and versatile — AIRSKIN breaks down barriers and takes robotics to the next level.

AIRSKIN is only a first step into a reimagined robotics world. As this fast-growing company develops new, versatile solutions, it will continue to push the boundaries of robotics as we know it.