

# Open Robotics Talks – Start 2022

When: 11.01.2022 at 10 am – 11.30 am

Where: <https://us02web.zoom.us/j/81812351000>

Please register at [sekrob@etit.tu-chemnitz.de](mailto:sekrob@etit.tu-chemnitz.de) to get access



## Prof. Dr. Bruno Siciliano

PRISMA Lab, University of Naples Federico II

### Robotics goes Prisma - 30 years research of robot control in the PRISMA Lab

**Abstract:** The PRISMA Lab has been engaged in robotics research at University of Naples Federico II for 30 years. This talk will survey our most remarkable achievements in seven research areas where robot manipulation and control challenges are found: grasping and manipulation, handling and manipulation, dynamic manipulation, aerial manipulation, interaction with deformable objects human-robot interaction, and haptic shared control.

**About the speaker:** Bruno Siciliano is Professor of Robotics and Director of ICAROS Center at University of Naples Federico II, and Past President of IEEE Robotics & Automation Society. After earning his PhD degree, he decided to build his academic future in and for his city Napoli, declining a faculty position at a prestigious American university. This was also because of the football faith that has always accompanied him in the team's highs (those were the times of Maradona) and lows. His book *Robotics* is among the most adopted texts in universities around the world. He also edited the Springer Handbook of Robotics, the reference manual for robotics at international level, together with Professor Oussama Khatib. He defines this process as "the most exciting professional experience of my life". A work of coordination of over 200 renowned researchers, with the goal (fulfilled) of offering a unique tool to the scientific community of robotics and beyond. His research group at PRISMA Lab has had 20 projects funded by the European Union for a total of 18 million euros in the last 15 years, including an Advanced Grant from the European Research Council: RoDyMan, an acronym for "Robotic Dynamic Manipulation", a robot capable of replicating the movements of a pizza maker. In terms of scientific research, it constituted the challenge of creating an automaton capable of manipulating deformable, elastic, non-solid objects, such as water and flour dough. "Keep the gradient" is the motto that Siciliano invented, meaning a constant search for new ideas and new solutions. A hymn to complexity to capture challenges and opportunities always in the name of the art of work & play, as stated in his passionate TEDx Talk.

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