Could a robot make a pizza? The RoDyMan project, with Bruno Siciliano

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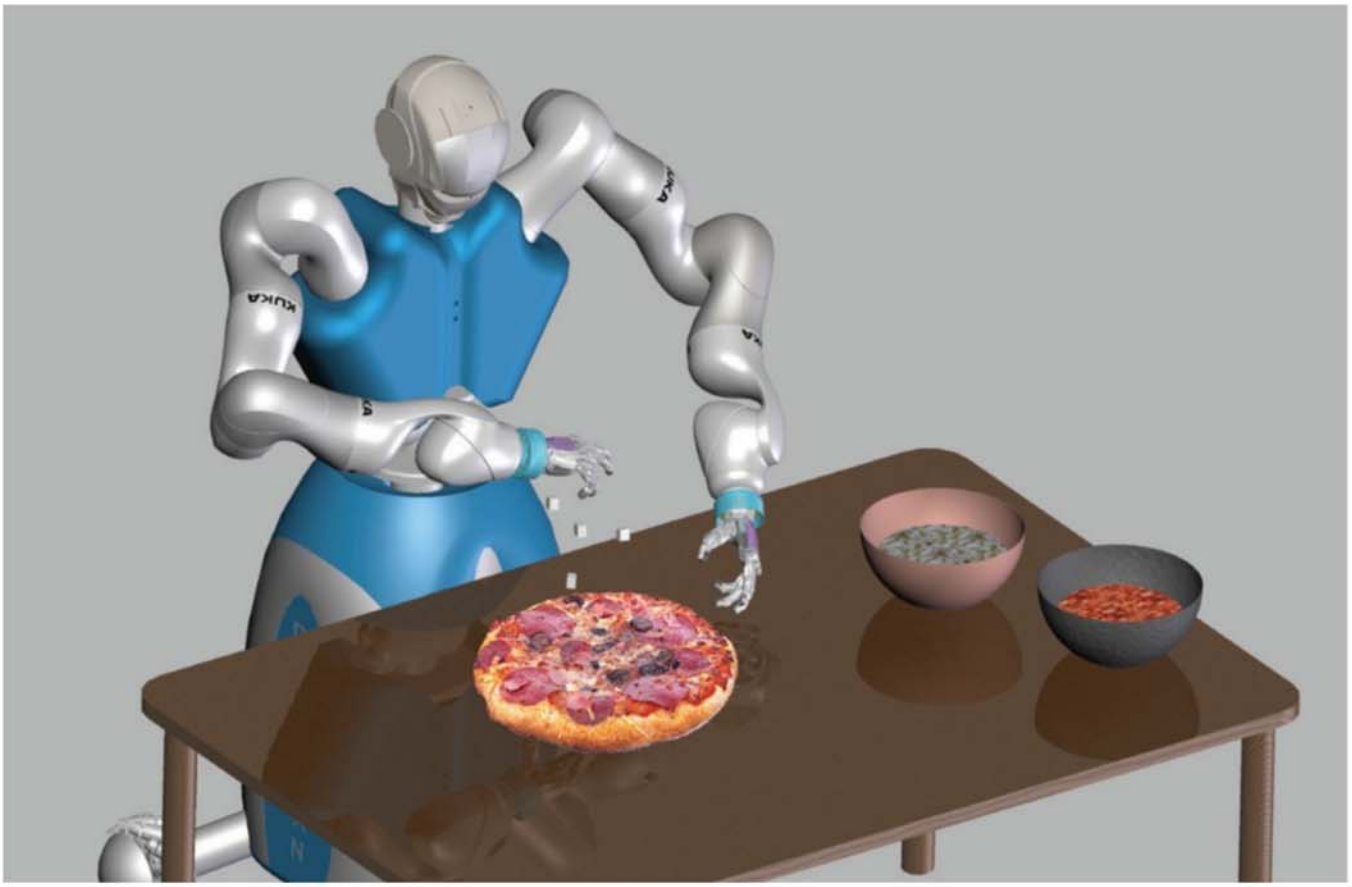


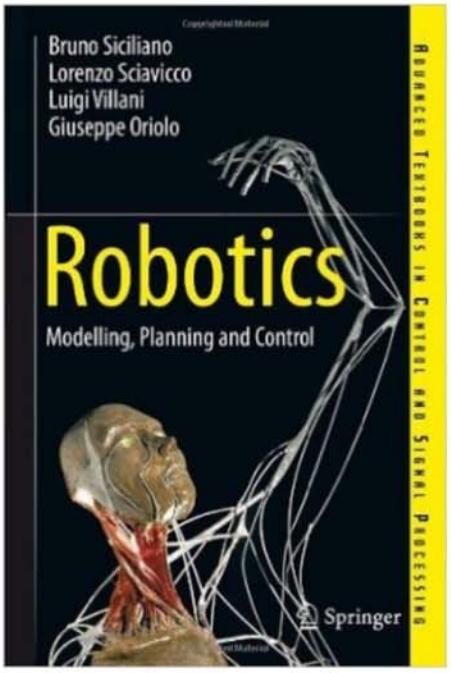
In this video lecture, Bruno Siciliano from PRISMA Lab at the University of Naples, Italy, takes us through a new project in robotic dynamic manipulation, called **RoDyMan.** Centered on the task of making a pizza, the project aims to solve key problems related to robot gripping: localisation of the object while it is moving, motion and manipulation of the object, and control of the overall robotic system.

RoDyMan will be an innovative mobile platform with a torso, two lightweight arms and a sensorized head that will execute complex manipulation movements similar to the ones humans carry out on a daily basis. The tasks will be carried out in the presence of humans, hence requiring human-robot cooperation.

Siciliano and his team are working an a very specific goal for this project and the inspiration came from their home city of Naples: a platform for performing all the phases of making a pizza. They plan to present this application by May 2018, and to find out more why this date was chosen, we invite you to watch Siciliano's video lecture in its entirety.

↑ up

Download the full presentation here.



Bruno Siciliano is a Professor of Control and Robotics, and Director of the PRISMA Lab in the Department of Electrical Engineering and Information Technology at the University of Naples. His research interests include: identification and adaptive control, impedance and force control, visual tracking and servoing, redundant and cooperative manipulators, lightweight flexible arms, aerial robots, human-centered and service robotics.

He has co-authored 11 books, 70 journal papers, 200 conference papers and book chapters; his book **Robotics: Modelling, Planning and Control** is one of the most widely adopted textbooks worldwide. He has delivered more than 100 invited lectures and seminars at institutions worldwide.

Siciliano B. IJARS Video Series: Human Motion Mapping to a Robot Arm with Redundancy Resolution – The RoDyMan Project [online video]. International Journal of Advanced Robotic Systems, 2015, 12:V5. DOI: 10.5772/61194

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