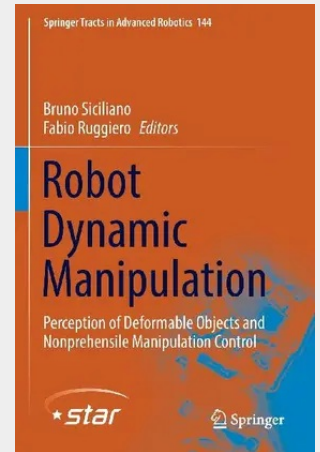


Robot Dynamic Manipulation

This book collects the main results of the Advanced Grant project RoDyMan funded by the European Research Council. As a final demonstrator of the project, a pizza-maker robot was realized. This represents a perfect example of understanding the robot challenge, considering every inexperienced person's difficulty preparing a pizza. Through RoDyMan, the opportunity was to merge all the acquired competencies in advancing the state of the art in nonprehensile dynamic manipulation, which is the most complex manipulation task, considering deformable objects. This volume is intended to present Ph.D. students and postgraduates working on deformable object perception and robot manipulation control the results achieved within RoDyMan and propose cause for reflection of future developments. The RoDyMan project culminating with this book is meant as a tribute to Naples, the hosting city of the project, an avant-garde city in robotics technology, automation, gastronomy, and art culture.

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