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Gianluca Antonelli

Underwater Robots

**Motion and Force Control
of Vehicle-Manipulator Systems**

Second Edition

 **Springer**



Underwater Robots Springer Tracts In Advanced Robotics

**Frank Kirchner, Sirko Straube, Daniel
Kühn, Nina Hoyer**



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Underwater Robots Gianluca Antonelli, 2018-04-05 A classic in underwater robotics One of the first volumes in the Springer Tracts in Advanced Robotics series it has been a bestseller through the previous three editions Fifteen years after the publication of the first edition the fourth edition comes to print The book addresses the main control aspects in underwater manipulation tasks With respect to the third edition it has been revised extended and some concepts better clustered The mathematical model with significant impact on the control strategy is discussed The problem of controlling a 6 degrees of freedoms autonomous underwater vehicle is investigated and a survey of fault detection tolerant strategies for unmanned underwater vehicles is provided Inverse kinematics dynamic and interaction control for underwater vehicle manipulator systems are then discussed The code used to generate most of the numerical simulations is made available and briefly discussed

Underwater Robots Gianluca Antonelli, 2013-11-21 The field of robotics continues to flourish and develop In common with general scientific investigation new ideas and implementations emerge quite spontaneously and these are discussed used discarded or subsumed at conferences in the reference journals as well as through the Internet After a little more maturity has been acquired by the new concepts then archival publication as a scientific or engineering monograph may occur The goal of the Springer Tracts in Advanced Robotics is to publish new developments and advances in the fields of robotics research rapidly and informally but with a high quality It is hoped that prospective authors will welcome the opportunity to publish a structured presentation of some of the emerging robotics methodologies and technologies The monograph written by Gianluca Antonelli is focused on an important class of robotic systems namely underwater vehicle manipulator systems These offer a challenging field for investigation of motion planning and control problems of robots operating in unstructured environments In such a scenario the importance of providing the control system with both motion and force control capabilities becomes crucial for successful execution of complex tasks and missions

Underwater Robots Gianluca Antonelli, 2013-11-22 This book now at the third edition addresses the main control aspects in underwater manipulation tasks The mathematical model with significant impact on the control strategy is discussed The problem of controlling a 6 degrees of freedoms autonomous underwater vehicle is deeply investigated and a survey of fault detection tolerant strategies for unmanned underwater vehicles is provided Inverse kinematics dynamic and interaction control for underwater vehicle manipulator systems are then discussed The code used to generate most of the numerical simulations is made available and briefly discussed

AI Technology for Underwater Robots Frank Kirchner, Sirko Straube, Daniel Kühn, Nina Hoyer, 2019-10-23 This book provides exclusive insight into the development of a new generation of robotic underwater technologies Deploying and using even the most simple and robust mechanical tools is presenting a challenge and is often associated with an enormous amount of preparation continuous monitoring and maintenance Therefore all disciplinary aspects e.g. system design communication machine learning mapping and coordination adaptive mission planning

are examined in detail and together this gives an extensive overview on research areas influencing next generation underwater robots These robotic underwater systems will operate autonomously with the help of the most modern artificial intelligence procedures and perform environmental monitoring as well as inspection and maintenance of underwater structures The systems are designed as modular and reconfigurable systems for long term autonomy to remain at the site for longer periods of time New communication methods using AI enable missions of hybrid teams of humans and heterogeneous robots Thus this volume will be an important reference for scientists on every qualification level in the field of underwater technologies industrial maritime applications and maritime science

Springer Handbook of Robotics Bruno

Siciliano, Oussama Khatib, 2016-07-27 The second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics Reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains Interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences Mathematics as well as the organization's Award for Engineering Technology The second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines The contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications Further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook's team A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app Springer Handbook of Robotics Multimedia Extension Portal <http://handbookofrobotics.org>

Underwater Work Sérgio

António Neves Lousada, Rafael Camacho, 2021-03 Underwater work is work done underwater generally by divers during diving operations It also includes work done underwater by remotely operated vehicles ROVs and manned submersibles The versatility and multifarious skills of underwater work mean that it is possible to operate over a wide range of activities working in hyperbaric conditions or in confined spaces This book exposes and discusses the inner workings of underwater work along with its challenges and opportunities

Robotics Goes MOOC Bruno Siciliano, 2025-06-08 It is often read in

the media that AI and Robotics are the primary cause of technology unemployment AI and machine learning techniques are expected to take over lower level tasks while humans can spend more time with higher level tasks In perspective it can be said that jobs requiring boring cognitive tasks or repeatable and dangerous physical tasks will be considerably shredded by automation thanks to the wide adoption of AI Robotics technology to replace humans while jobs requiring challenging cognitive tasks or unstructured physical tasks will be suitably re engineered with the progressive introduction of AI Robotics technology to assist humans From the discussion above it should be clear that in a world populated by humans and robots issues arise that go beyond engineering and technology due to the impact resulting from the use of robots in various application scenarios The anthropization of robots cannot ignore the resolution of those ethical legal sociological economic ELSE problems that have so far slowed their spread in our society The final book of the Robotics Goes MOOC project enlightens the impact of using robotic technology in the main fields of application namely industrial robots as in Chapter 1 by Bischoff et al medical robotics as in Chapter 2 by Dario et al aerial robots as in Chapter 3 by Ollero et al orbital robotics as in Chapter 4 by Lampariello underwater robots in Chapter 5 by Antonelli and rescue robots as in Chapter 6 by Murphy The last part is devoted to the open dilemma of using and accepting robots in human co habited environments which is addressed in Chapter 7 on social robotics by Pandey and the very final chapter by Tamburrini on the important issues raised with roboethics

Springer Handbook of Ocean Engineering Manhar R. Dhanak, Nikolaos I. Xiros, 2016-07-23 This handbook is the definitive reference for the interdisciplinary field that is ocean engineering It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies Coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean vehicles and automation It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture The Springer Handbook of Ocean Engineering is organized in five parts Part A Fundamentals Part B Autonomous Ocean Vehicles Subsystems and Control Part C Coastal Design Part D Offshore Technologies Part E Energy Conversion

Introduction to Autonomous Manipulation Giacomo Marani, Junku Yuh, 2014-03-26 Autonomous manipulation is a challenge in robotic technologies It refers to the capability of a mobile robot system with one or more manipulators that performs intervention tasks requiring physical contacts in unstructured environments and without continuous human supervision Achieving autonomous manipulation capability is a quantum leap in robotic technologies as it is currently beyond the state of the art in robotics This book addresses issues with the complexity of the problems encountered in autonomous manipulation including representation and modeling of robotic structures kinematic and dynamic robotic control kinematic and algorithmic singularity avoidance dynamic task priority workspace optimization and environment perception Further

development in autonomous manipulation should be able to provide robust improvements of the solutions for all of the above issues. The book provides an extensive tract on sensory based autonomous manipulation for intervention tasks in unstructured environments. After presenting the theoretical foundations for kinematic and dynamic modelling as well as task priority based kinematic control of multi body systems, the work is focused on one of the most advanced underwater vehicle manipulator systems, SAUVIM (Semi Autonomous Underwater Vehicle for Intervention Missions). Solutions to the problem of target identification and localization are proposed, a number of significant case studies are discussed, and practical examples and experimental simulation results are presented. The book may inspire the robot research community to further investigate critical issues in autonomous manipulation and to develop robot systems that can profoundly impact our society for the better.

Marine Robot Autonomy Mae L. Seto, 2012-12-09. Autonomy for Marine Robots provides a timely and insightful overview of intelligent autonomy in marine robots. A brief history of this emerging field is provided along with a discussion of the challenges unique to the underwater environment and their impact on the level of intelligent autonomy required. Topics covered at length examine advanced frameworks, path planning, fault tolerance, machine learning, and cooperation as relevant to marine robots that need intelligent autonomy.

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