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**Christian Laugier  
Raja Chatila (Eds.)**

# **Autonomous Navigation in Dynamic Environments**



 Springer

# Autonomous Navigation In Dynamic Environments

## Springer Tracts In Advanced Robotics

**Bilge Mutlu, Ginevra Castellano, James  
Everett Young, Séverin  
Lemaignan, Adriana Tapus**

## **Autonomous Navigation In Dynamic Environments Springer Tracts In Advanced Robotics:**

*Autonomous Navigation in Dynamic Environments* Christian Laugier,Raja Chatila,2007-10-14 This book presents a foundation for a broad class of mobile robot mapping and navigation methodologies for indoor outdoor and exploratory missions It addresses the challenging problem of autonomous navigation in dynamic environments presenting new ideas and approaches in this emerging technical domain Coverage discusses in detail various related challenging technical aspects and addresses upcoming technologies in this field

*Motion Planning* Xj Jing,2008-06-01 In this book new results or developments from different research backgrounds and application fields are put together to provide a wide and useful viewpoint on these headed research problems mentioned above focused on the motion planning problem of mobile robots These results cover a large range of the problems that are frequently encountered in the motion planning of mobile robots both in theoretical methods and practical applications including obstacle avoidance methods navigation and localization techniques environmental modelling or map building methods and vision signal processing etc Different methods such as potential fields reactive behaviours neural fuzzy based methods motion control methods and so on are studied Through this book and its references the reader will definitely be able to get a thorough overview on the current research results for this specific topic in robotics The book is intended for the readers who are interested and active in the field of robotics and especially for those who want to study and develop their own methods in motion path planning or control for an intelligent robotic system

*Adaptive State × Time Lattices: A Contribution to Mobile Robot Motion Planning in Unstructured Dynamic Environments* Petereit, Janko,2017-01-20 Mobile robot motion planning in unstructured dynamic environments is a challenging task Thus often suboptimal methods are employed which perform global path planning and local obstacle avoidance separately This work introduces a holistic planning algorithm which is based on the concept of state

**Recent Advances in Mobile Robotics** Andon Topalov,2011-12-14 Mobile robots are the focus of a great deal of current research in robotics Mobile robotics is a young multidisciplinary field involving knowledge from many areas including electrical electronic and mechanical engineering computer cognitive and social sciences Being engaged in the design of automated systems it lies at the intersection of artificial intelligence computational vision and robotics Thanks to the numerous researchers sharing their goals visions and results within the community mobile robotics is becoming a very rich and stimulating area The book Recent Advances in Mobile Robotics addresses the topic by integrating contributions from many researchers around the globe It emphasizes the computational methods of programming mobile robots rather than the methods of constructing the hardware Its content reflects different complementary aspects of theory and practice which have recently taken place We believe that it will serve as a valuable handbook to those who work in research and development of mobile robots

*Vision-Based Mobile Robot Control and Path Planning Algorithms in Obstacle Environments Using Type-2 Fuzzy Logic* Mahmut Dirik,Oscar Castillo,Fatih Kocamaz,2021-03-01 The book includes topics such as path planning avoiding

obstacles following the path go to goal control localization and visual based motion control. The theoretical concepts are illustrated with a developed control architecture with soft computing and artificial intelligence methods. The proposed vision based motion control strategy involves three stages. The first stage consists of the overhead camera calibration and the configuration of the working environment. The second stage consists of a path planning strategy using several traditional path planning algorithms and proposed planning algorithm. The third stage consists of the path tracking process using previously developed Gauss and Decision Tree control approaches and the proposed Type 1 and Type 2 controllers. Two kinematic structures are utilized to acquire the input values of controllers. These are Triangle Shape Based Controller Design which was previously developed and Distance Based Triangle Structure that is used for the first time in conducted experiments. Four different control algorithms Type 1 fuzzy logic Type 2 Fuzzy Logic Decision Tree Control and Gaussian Control have been used in overall system design. The developed system includes several modules that simplify characterizing the motion control of the robot and ensure that it maintains a safe distance without colliding with any obstacles on the way to the target. The topics of the book are extremely relevant in many areas of research as well as in education in courses in computer science electrical and mechanical engineering and in mathematics at the graduate and undergraduate levels.

*Assistance Robotics and Biosensors 2019* Fernando Torres, Santiago Puente, Andrés Ubeda, 2020-12-29 This Special Issue covers several recent advances in robotic devices applied to motor rehabilitation and assistance. The Special Issue has collected eight outstanding papers covering different aspects of assistance robotics and biosensors. The selected contributions cover several main topics related to assistance robotics from the control of myoelectric prostheses to the rehabilitation and assistance of the lower and upper limbs.

**Robotics: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2013-10-31 This book explores some of the most recent developments in robotic motion artificial intelligence and human machine interaction providing insight into a wide variety of applications and functional areas. Provided by publisher

**Probabilistic Robotics** Sebastian Thrun, Wolfram

Burgard, Dieter Fox, 2005-08-19 An introduction to the techniques and algorithms of the newest field in robotics. Probabilistic robotics is a new and growing area in robotics concerned with perception and control in the face of uncertainty. Building on the field of mathematical statistics probabilistic robotics endows robots with a new level of robustness in real world situations. This book introduces the reader to a wealth of techniques and algorithms in the field. All algorithms are based on a single overarching mathematical foundation. Each chapter provides example implementations in pseudo code detailed mathematical derivations discussions from a practitioner's perspective and extensive lists of exercises and class projects. The book's Web site [www.probabilistic-robotics.org](http://www.probabilistic-robotics.org) has additional material. The book is relevant for anyone involved in robotic software development and scientific research. It will also be of interest to applied statisticians and engineers dealing with real world sensor data.

**Rising Stars in Human-Robot Interaction** Bilge Mutlu, Ginevra Castellano, James Everett

Young, Séverin Lemaignan, Adriana Tapus, 2022-08-11

**Field and Service Robotics** Christian Laugier, Roland

Siegwart, 2008-06-19 FSR the International Conference on Field and Service Robotics is a robotics Symposium which has established over the past ten years the latest research and practical results towards the use of field and service robotics in the community with particular focus on proven technology The first meeting was held in Canberra Australia in 1997 Since then the meeting has been held every two years in the pattern Asia America Europe This books presents the results of the sixth edition of Field and Service Robotics FSR03 held in Chamonix France on 9th 12th July 2003 The conference provided a forum for researchers professionals and robot manufacturers to exchange up to date technical knowledge and experience Field robots are non factory robots typically mobile that operate in complex and dynamic environments on the ground of Earth or planets under the ground underwater in the air or in space Service robots are those that work closely with humans to help them with their lives This book offers a collection of a broad range of topics including Underwater Robots and Systems Autonomous Navigation for Unmanned Aerial Vehicles Simultaneous Localization and Mapping Climbing Robotics Sensor Fusion

**Subject Guide to Books in Print**, 1991 *Robotic Mapping and Exploration* Cyril

Stachniss, 2009-05-06 Robotic Mapping and Exploration is an important contribution in the area of simultaneous localization and mapping SLAM for autonomous robots which has been receiving a great deal of attention by the research community in the latest few years The contents are focused on the autonomous mapping learning problem Solutions include uncertainty driven exploration active loop closing coordination of multiple robots learning and incorporating background knowledge and dealing with dynamic environments Results are accompanied by a rich set of experiments revealing a promising outlook toward the application to a wide range of mobile robots and field settings such as search and rescue transportation tasks or automated vacuum cleaning

**Intelligent Mobile Robot Navigation** Federico Cuesta, Aníbal Ollero, 2005-03-11

Intelligent Mobile Robot Navigation builds upon the application of fuzzy logic to the area of intelligent control of mobile robots Reactive planned and teleoperated techniques are considered leading to the development of novel fuzzy control systems for perception and navigation of nonholonomic autonomous vehicles The unique feature of this monograph lies in its comprehensive treatment of the problem from the theoretical development of the various schemes down to the real time implementation of algorithms on mobile robot prototypes As such the book spans different domains ranging from mobile robots to intelligent transportation systems from automatic control to artificial intelligence

*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 system 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

### **Robot**

**Navigation from Nature** Michael John Milford,2007-12-21 This pioneering book describes the development of a robot mapping and navigation system inspired by models of the neural mechanisms underlying spatial navigation in the rodent hippocampus Computational models of animal navigation systems have traditionally had limited performance when implemented on robots This is the first research to test existing models of rodent spatial mapping and navigation on robots in large challenging real world environments

### **Robotics Research** Paolo Dario,Raja Chatila,2005-08-24 ISRR the

International Symposium on Robotics Research is one of robotics pioneering symposia which has established some of the field's most fundamental and lasting contributions over the past two decades This book presents the results of the eleventh edition of Robotics Research ISRR03 offering a broad range of topics in robotics The contributions provide a wide coverage of the current state of robotics research the advances and challenges in its theoretical foundation and technology basis and the developments in its traditional and new emerging areas of applications The diversity novelty and span of the work unfolding in these areas reveal the field's increased maturity and expanded scope and define the state of the art of robotics and its future direction

### **Deutsche Nationalbibliografie** Die deutsche Nationalbibliothek,2007

### **Field and Service**

**Robotics** Shin'ichi Yuta,Hajime Asama,Sebastian Thrun,Erwin Prassler,Takashi Tsubouchi,2006-07-11 Since its inception in 1996 FSR the biannual International Conference on Field and Service Robotics has published archival volumes of high reference value This unique collection is the post conference proceedings of the 4th FSR in Lake Yamanaka Japan at July 2003 This book edited by Shin'ichi Yuta Hajime Asama Sebastian Thrun Erwin Prassler and Takashi Tsubouchi is rich by topics and authoritative contributors and presents the current developments and new directions in field and service robotics The contents of these contributions represent a cross section of the current state of robotics research from one particular aspect field and service applications and how they reflect on the theoretical basis of subsequent developments Pursuing technologies aimed at realizing skilful smart reliable robust field and service robots is the big challenge running throughout

this focused collection     **Robotics Research** Paolo Dario,Raja Chatila,2005-02-17 ISRR the International Symposium on Robotics Research is one of robotics pioneering symposia which has established some of the field s most fundamental and lasting contributions over the past two decades This book presents the results of the eleventh edition of Robotics Research ISRR03 offering a broad range of topics in robotics The contributions provide a wide coverage of the current state of robotics research the advances and challenges in its theoretical foundation and technology basis and the developments in its traditional and new emerging areas of applications The diversity novelty and span of the work unfolding in these areas reveal the field s increased maturity and expanded scope and define the state of the art of robotics and its future direction

*European Robotics Symposium 2008* Herman Bruyninckx,Libor Preucil,Miroslav Kulich,2008-02-12 At the dawn of the new millennium robotics is undergoing a major transformation in scope and dimension From a largely dominant industrial focus robotics is rapidly expanding into the challenges of unstructured environments Interacting with assi ing serving and exploring with humans the emerging robots will increasingly touch people and their lives The goal of the Springer Tracts in Advanced Robotics STAR series is to bring in a timely fashion the latest advances and developments in robotics on the basis of their significance and quality It is our hope that the wider dissemination of research developments will stimulate more exchanges and collaborations among the research community and contribute to further advancement of this rapidly growing field The European Robotics Symposium EUROS was launched in 2006 as an inter tional scientific single track event promoted by EURON the European Robotics Network linking most of the European research teams since its inception in 2000 Since then EUROS has found its parental home under STAR together with the other thematic symposia devoted to excellence in robotics research FSR ISER ISRR WAFR

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