



Intelligent Mobile Robot Navigation

DaeEun Kim



Intelligent Mobile Robot Navigation:

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 Mobile Robot Navigation with Intelligent Infrared Image Interpretation William L. Fehlman, Mark K. Hinders, 2009-06-13 Mobile robots require the ability to make decisions such as go through the hedges or go around the brick wall Mobile Robot Navigation with Intelligent Infrared Image Interpretation describes in detail an alternative to GPS navigation a physics based adaptive Bayesian pattern classification model that uses a passive thermal infrared imaging system to automatically characterize non heat generating objects in unstructured outdoor environments for mobile robots The resulting classification model complements an autonomous robot's situational awareness by providing the ability to classify smaller structures commonly found in the immediate operational environment **Navigation for an Intelligent Mobile Robot** James L. Crowley, CARNEGIE-MELLON UNIV PITTSBURGH PA ROBOTICS INST., 1984 This paper describes a system which performs task oriented navigation for an intelligent mobile robot Global path planning in this system is based on a prelearned model of the robot's domain The pre learned model is divided into convex regions using a new maximal area convex decomposition algorithm A network of convex region entry points called adits provides the basis for planning a global path as a sequence of straight line movements This navigation system is based on a dynamically maintained model of the local environment called the Composite Local Model which integrates information from different sensors and different views as well as from the pre learned model of the robot's domain Local straight line movements are planned and monitored using this local model The estimated position of the robot is corrected by the difference in position between observed sensor signals and the corresponding symbols in the local model This system is useful for navigation in a finite pre learned domain as a house office or factory Author **Directed Sonar Sensing for Mobile Robot Navigation** John J. Leonard, Hugh F. Durrant-Whyte, 2012-12-06 This monograph is a revised version of the D Phil thesis of the first author submitted in October 1990 to the University of Oxford This work investigates the problem of mobile robot navigation using sonar We view model based navigation as a process of tracking naturally occurring environment features which we refer to as targets Targets that have been predicted from the environment map are tracked to provide that are observed but not predicted vehicle position estimates Targets represent unknown environment features or obstacles and cause new tracks to be initiated classified and ultimately integrated into the map Chapter 1 presents a brief definition of the problem and a

discussion of the basic research issues involved No attempt is made to survey exhaustively the mobile robot navigation literature the reader is strongly encouraged to consult other sources The recent collection edited by Cox and Wilfong 34 is an excellent starting point as it contains many of the standard works of the field Also we assume familiarity with the Kalman filter There are many well known texts on the subject our notation derives from Bar Shalom and Fortmann 7 Chapter 2 provides a detailed sonar sensor model A good sensor model of our approach to navigation and is used both for is a crucial component predicting expected observations and classifying unexpected observations

Robot Navigation from Nature

Michael John Milford,2008-02-11 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

Robot Intelligence Technology and Applications 2 Jong-Hwan Kim, Eric T . Matson, Hyun Myung, Peter Xu, Fakhri Karray, 2014-03-21 We are facing a new technological challenge on how to store and retrieve knowledge and manipulate intelligence for autonomous services by intelligent systems which should be capable of carrying out real world tasks autonomously To address this issue robot researchers have been developing intelligence technology InT for robots that think which is in the focus of this book The book covers all aspects of intelligence from perception at sensor level and reasoning at cognitive level to behavior planning at execution level for each low level segment of the machine It also presents the technologies for cognitive reasoning social interaction with humans behavior generation ability to cooperate with other robots ambience awareness and an artificial genome that can be passed on to other robots These technologies are to materialize cognitive intelligence social intelligence behavioral intelligence collective intelligence ambient intelligence and genetic intelligence The book aims at serving researchers and practitioners with a timely dissemination of the recent progress on robot intelligence technology and its applications based on a collection of papers presented at the at the 2nd International Conference on Robot Intelligence Technology and Applications RiTA held in Denver USA December 18 20 2013

Modelling and Planning for Sensor Based Intelligent Robot Systems Horst Bunke, Takeo Kanade, Hartmut Noltemeier, 1995 This edited and reviewed volume consists of papers that were originally presented at a workshop in the Scientific Center at Schloss Dagstuhl Germany It gives an overview of the field and presents the latest developments in the areas of modeling and planning for sensor based robots The particular topics addressed include active vision sensor fusion environment modeling motion planning robot navigation distributed control architectures reactive behavior and others

Mobile Robots Navigation Luis Payá, Reinoso Garcia, 2020-11-13 The presence of mobile robots in diverse scenarios is considerably increasing to perform a variety of tasks Among them many developments have occurred in the fields of ground underwater and flying robotics Independent of the environment where they move navigation is a fundamental ability of

mobile robots so that they can autonomously complete high level tasks This problem can be efficiently addressed through the following actions First it is necessary to perceive the environment in which the robot has to move and extract some relevant information mapping problem Second the robot must be able to estimate its position and orientation within this environment localization problem With this information a trajectory toward the target points must be planned path planning and the vehicle must be reactively guided along this trajectory considering either possible changes or interactions with the environment or with the user control Given this information this book introduces current frameworks in these fields mapping localization path planning and control and in general approaches to any problem related to the navigation of mobile robots such as odometry exploration obstacle avoidance and simulation

Biologically Inspired Robot Behavior Engineering

Richard J. Duro, Jose Santos, Manuel Grana, 2013-06-05 The book presents an overview of current research on biologically inspired autonomous robotics from the perspective of some of the most relevant researchers in this area The book crosses several boundaries in the field of robotics and the closely related field of artificial life The key aim throughout the book is to obtain autonomy at different levels From the basic motor behavior in some exotic robot architectures right through to the planning of complex behaviors or the evolution of robot control structures the book explores different degrees and definitions of autonomous behavior These behaviors are supported by a wide variety of modeling techniques structural grammars neural networks and fuzzy logic and evolution underlies many of the development processes Thus this text can be used by scientists and students interested in these areas and provides a general view of the field for a more general audience

A Robotic Framework for the Mobile Manipulator Nguyen Van Toan, Phan Bui Khoi, 2023-03-07 By proposing and forming a mobile manipulator for modern multi floor buildings A Robotic Framework for the Mobile Manipulator Theory and Application helps readers visualize an end to end workflow for making a robot system work in a targeted environment From a product oriented viewpoint this book is considered as a bridge from theories to real products in which robotic software modules and the robotic system integration are mainly concerned In the end readers will have an overview of how to build and integrate various single robotic modules to execute a list of designed tasks in the real world as well as how to make a robot system work independently without human interventions With references and execution guidelines provided at the end of each chapter the book will be a useful tool for developers and researchers looking to expand their knowledge about the robotics and the robotic software

Autonomous Mobile Robots Alex Meystel, 1991 This book explores a new rapidly developing area of robotics It describes the state of the art in intelligence control applied machine intelligence and research and initial stages of manufacturing autonomous mobile robots A complete account of the theoretical and experimental results obtained during the last two decades together with some generalizations on Autonomous Mobile Systems are included in this book

Introduction to Mobile Robot Control Spyros G Tzafestas, 2013-10-03 Introduction to Mobile Robot Control provides a complete and concise study of modeling control and navigation methods for wheeled non holonomic and omnidirectional

mobile robots and manipulators The book begins with a study of mobile robot drives and corresponding kinematic and dynamic models and discusses the sensors used in mobile robotics It then examines a variety of model based model free and vision based controllers with unified proof of their stabilization and tracking performance also addressing the problems of path motion and task planning along with localization and mapping topics The book provides a host of experimental results a conceptual overview of systemic and software mobile robot control architectures and a tour of the use of wheeled mobile robots and manipulators in industry and society Introduction to Mobile Robot Control is an essential reference and is also a textbook suitable as a supplement for many university robotics courses It is accessible to all and can be used as a reference for professionals and researchers in the mobile robotics field Clearly and authoritatively presents mobile robot concepts Richly illustrated throughout with figures and examples Key concepts demonstrated with a host of experimental and simulation examples No prior knowledge of the subject is required each chapter commences with an introduction and background

Applications of Mobile Robots, 2019-03-20 This book includes a selection of research work in the mobile robotics area where several interesting topics are presented In this way we find a review of multi agents different techniques applied to the navigation systems artificial intelligence algorithms which include deep learning applications systems where a Kalman filter estimator is extended for visual odometry and finally the design of an on chip system for the execution of cognitive agents Additionally the development of different ideas in mobile robot applications are included and hopefully will be useful and enriching for readers

Active Sensors For Local Planning In Mobile Robotics Penelope Probert Smith, 2001-12-05 This book describes recent work on active sensors for mobile robots An active sensor interacts with its surroundings to supply data on demand for a particular function gathering and abstracting information according to need rather than acting as a generic data gatherer Details of the physical operation are hidden The book deals mainly with active range sensors which provide rapid information for local planning describing extraction of two dimensional features such as lines corners and cylinders to reconstruct a plan of a building It is structured according to the physical principles of the sensors since to a large extent these determine the function of the sensors and the methods of processing Recent work using sonar optoelectronic sensors and radar is described Sections on vision and on sensor management develop the idea of software adaptation for efficient operation in a changing environment

Autonomous Mobile Robots and Multi-Robot Systems Eugene Kagan, Nir Shvalb, Irad Ben-Gal, 2019-09-02 Offers a theoretical and practical guide to the communication and navigation of autonomous mobile robots and multi robot systems This book covers the methods and algorithms for the navigation motion planning and control of mobile robots acting individually and in groups It addresses methods of positioning in global and local coordinates systems off line and on line path planning sensing and sensors fusion algorithms of obstacle avoidance swarming techniques and cooperative behavior The book includes ready to use algorithms numerical examples and simulations which can be directly implemented in both simple and advanced mobile robots and is accompanied by a website

hosting codes videos and PowerPoint slides Autonomous Mobile Robots and Multi Robot Systems Motion Planning Communication and Swarming consists of four main parts The first looks at the models and algorithms of navigation and motion planning in global coordinates systems with complete information about the robot s location and velocity The second part considers the motion of the robots in the potential field which is defined by the environmental states of the robot s expectations and knowledge The robot s motion in the unknown environments and the corresponding tasks of environment mapping using sensed information is covered in the third part The fourth part deals with the multi robot systems and swarm dynamics in two and three dimensions Provides a self contained theoretical guide to understanding mobile robot control and navigation Features implementable algorithms numerical examples and simulations Includes coverage of models of motion in global and local coordinates systems with and without direct communication between the robots Supplemented by a companion website offering codes videos and PowerPoint slides Autonomous Mobile Robots and Multi Robot Systems Motion Planning Communication and Swarming is an excellent tool for researchers lecturers senior undergraduate and graduate students and engineers dealing with mobile robots and related issues

CAD/CAM Robotics and Factories of the Future

Birendra Prasad,S. N. Dwivedi,R. Mahajan,2013-12-19 The complete shop floor automation a lights out factory where workers initially set up all machines turn off the lights lock the door and the machine churns up the parts remains an unfulfilled dream Yet when we look at the enormity of the process of automation and integration even for the most simply conceived part factory we can recognize that automation has been applied and is being applied more so when it made sense from a cost benefit standpoint It is our nature to be dissatisfied with near term progress but when we realize how short a time the tools to do that automation have been available the progress is clearly noteworthy considering the multitudes of factors and the environment we have to deal with Most of the automation problems we confront in today s environment are multidisciplinary in nature They require not just the knowledge and experience in various distinct fields but good cooperation from different disciplined organizations to adequately comprehend and solve such problems In Volume III we have many examples that reflect the current state of the art techniques of robotics and plant automation The papers for Volume III have been arranged in a logical order of automation planning automated assembly robot programming and simulation control motion coordination communication and networking to factories of the future

Theory And Practice Of Control And Systems - Proceedings Of The 6th Ieee Mediterranean Conference

Antonio Tornambe,Giuseppe Conte,Anna Maria Perdon,1999-01-04 This volume gathers together all the lectures presented at the 6th IEEE Mediterranean Conference It focuses on the mathematical aspects in the theory and practice of control and systems including stability and stabilizability robust control adaptive control robotics and manufacturing these topics are under intense investigation and development in the engineering and mathematics communities The volume should have immediate appeal for a large group of engineers and mathematicians who are interested in very abstract as well as very concrete aspects of control and system theory

Mobile

Robots Janusz Będkowski, 2011-12-02 The objective of this book is to cover advances of mobile robotics and related technologies applied for multi robot systems design and development Design of control system is a complex issue requiring the application of information technologies to link the robots into a single network Human robot interface becomes a demanding task especially when we try to use sophisticated methods for brain signal processing Generated electrophysiological signals can be used to command different devices such as cars wheelchair or even video games A number of developments in navigation and path planning including parallel programming can be observed Cooperative path planning formation control of multi robotic agents communication and distance measurement between agents are shown Training of the mobile robot operators is very difficult task also because of several factors related to different task execution The presented improvement is related to environment model generation based on autonomous mobile robot observations

Mobile Robots: The Evolutionary Approach Nadia Nedjah, 2007-03-08 Researchers have obtained robots that display an amazing slew of behaviors and perform a multitude of tasks including perception of environment negotiating rough terrain and pushing boxes This volume offers a wide spectrum of sample works developed in leading research throughout the world about evolutionary mobile robotics and demonstrates the success of the technique in evolving efficient and capable mobile robots

Advanced Mobile Robotics DaeEun Kim, 2020-03-06 Mobile robotics is a challenging field with great potential It covers disciplines including electrical engineering mechanical engineering computer science cognitive science and social science It is essential to the design of automated robots in combination with artificial intelligence vision and sensor technologies Mobile robots are widely used for surveillance guidance transportation and entertainment tasks as well as medical applications This Special Issue intends to concentrate on recent developments concerning mobile robots and the research surrounding them to enhance studies on the fundamental problems observed in the robots Various multidisciplinary approaches and integrative contributions including navigation learning and adaptation networked system biologically inspired robots and cognitive methods are welcome contributions to this Special Issue both from a research and an application perspective

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Intelligent Mobile Robot Navigation Introduction

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