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Paolo Dario
Raja Chatila (Eds.)

Robotics Research

The Eleventh International Symposium

 Springer



Robotics Research The Eleventh International Symposium

**Oussama Khatib, Vijay Kumar, Daniela
Rus**



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Robotics Research, 2005 **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 *Special Issue on the Eleventh International Symposium on Experimental Robotics* International Symposium on Experimental Robotics (11, 2008, Athènes), 2010 **Experimental Robotics** Oussama Khatib, Vijay Kumar, George Pappas, 2009-04-22 By the dawn of the new millennium robotics has undergone a major transformation in scope and dimensions This expansion has been brought about by the maturity of the field and the advances in its related technologies From a largely dominant industrial focus robotics has been rapidly expanding into the challenges of the human world The new generation of robots is expected to safely and dependably co-habitat with humans in homes workplaces and communities providing support in services entertainment education healthcare manufacturing and assistance Beyond its impact on physical robots the body of knowledge robotics has produced is revealing a much wider range of applications reaching across diverse research areas and scientific disciplines such as biomechanics haptics neurosciences virtual simulation animation surgery and sensor networks among others In return the challenges of the new emerging areas are proving an abundant source of stimulation and insights for the field of robotics It is indeed at the intersection of disciplines that the most striking advances happen The goal of the series of Springer Tracts in Advanced Robotics STAR 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 Special Issue on the 11th International Symposium on Robotics Research International Symposium on Robotics Research (11, 2003, Siena), Paolo Dario, Oussama Khatib, 2005 *Proceedings of 2021 5th Chinese Conference on Swarm Intelligence and Cooperative Control* Zhang Ren, Mengyi Wang, Yongzhao Hua, 2022-07-29 This book includes original peer reviewed research papers from the 2021 5th Chinese Conference on Swarm Intelligence and Cooperative Control CCSICC2021 held in Shenzhen China on January 19-22, 2022 The topics covered include but are not limited to reviews and discussions of swarm intelligence basic theories on swarm intelligence swarm communication and networking swarm perception awareness and location swarm decision and planning cooperative control cooperative guidance swarm simulation and assessment The papers showcased here share the latest

findings on theories algorithms and applications in swarm intelligence and cooperative control making the book a valuable asset for researchers engineers and university students alike *Algorithmic Foundations of Robotics XI* H. Levent Akin,Nancy M. Amato,Volkan Isler,A. Frank van der Stappen,2015-04-30 This carefully edited volume is the outcome of the eleventh edition of the Workshop on Algorithmic Foundations of Robotics WAFR which is the premier venue showcasing cutting edge research in algorithmic robotics The eleventh WAFR which was held August 3 5 2014 at Bo azi i University in Istanbul Turkey continued this tradition This volume contains extended versions of the 42 papers presented at WAFR These contributions highlight the cutting edge research in classical robotics problems e g manipulation motion path multi robot and kinodynamic planning geometric and topological computation in robotics as well novel applications such as informative path planning active sensing and surgical planning This book rich by topics and authoritative contributors is a unique reference on the current developments and new directions in the field of algorithmic foundations **Experimental Robotics** Oussama Khatib,Vijay Kumar,Daniela Rus,2008-02-26 The International Symposium on Experimental Robotics ISER is a series of bi annual meetings which are organized in a rotating fashion around North America Europe and Asia Oceania The goal of ISER is to provide a forum for research in robotics that focuses on the novelty of theoretical contributions validated by experimental results This unique reference presents the latest advances in robotics with ideas that are conceived conceptually and have been explored experimentally **Correct Reasoning** Esra Erdem,Joohyung Lee,Yuliya Lierler,David Pearce,2012-06-03 This Festschrift published in honor of Vladimir Lifschitz on the occasion of his 65th birthday presents 39 articles by colleagues from all over the world with whom Vladimir Lifschitz had cooperation in various respects The 39 contributions reflect the breadth and the depth of the work of Vladimir Lifschitz in logic programming circumscription default logic action theory causal reasoning and answer set programming **On Motion Planning Using Numerical Optimal Control** Kristoffer Bergman,2019-05-28 During the last decades motion planning for autonomous systems has become an important area of research The high interest is not the least due to the development of systems such as self driving cars unmanned aerial vehicles and robotic manipulators In this thesis the objective is not only to find feasible solutions to a motion planning problem but solutions that also optimize some kind of performance measure From a control perspective the resulting problem is an instance of an optimal control problem In this thesis the focus is to further develop optimal control algorithms such that they be can used to obtain improved solutions to motion planning problems This is achieved by combining ideas from automatic control numerical optimization and robotics First a systematic approach for computing local solutions to motion planning problems in challenging environments is presented The solutions are computed by combining homotopy methods and numerical optimal control techniques The general principle is to define a homotopy that transforms or preferably relaxes the original problem to an easily solved problem The approach is demonstrated in motion planning problems in 2D and 3D environments where the presented method outperforms both a state of the art

numerical optimal control method based on standard initialization strategies and a state of the art optimizing sampling based planner based on random sampling Second a framework for automatically generating motion primitives for lattice based motion planners is proposed Given a family of systems the user only needs to specify which principle types of motions that are relevant for the considered system family Based on the selected principle motions and a selected system instance the algorithm not only automatically optimizes the motions connecting pre defined boundary conditions but also simultaneously optimizes the terminal state constraints as well In addition to handling static a priori known system parameters such as platform dimensions the framework also allows for fast automatic re optimization of motion primitives if the system parameters change while the system is in use Furthermore the proposed framework is extended to also allow for an optimization of discretization parameters that are used by the lattice based motion planner to define a state space discretization This enables an optimized selection of these parameters for a specific system instance Finally a unified optimization based path planning approach to efficiently compute locally optimal solutions to advanced path planning problems is presented The main idea is to combine the strengths of sampling based path planners and numerical optimal control The lattice based path planner is applied to the problem in a first step using a discretized search space where system dynamics and objective function are chosen to coincide with those used in a second numerical optimal control step This novel tight combination of a sampling based path planner and numerical optimal control makes in a structured way benefit of the former method s ability to solve combinatorial parts of the problem and the latter method s ability to obtain locally optimal solutions not constrained to a discretized search space The proposed approach is shown in several practically relevant path planning problems to provide improvements in terms of computation time numerical reliability and objective function value

Human-in-the-Loop Robot Control and Learning Luka Peternel, Jan Babič, Erhan Oztop, Tetsunari Inamura, Dingguo Zhang, 2020-01-22 In the past years there has been considerable effort to move robots from industrial environments to our daily lives where they can collaborate and interact with humans to improve our life quality One of the key challenges in this direction is to make a suitable robot control system that can adapt to humans and interactively learn from humans to facilitate the efficient and safe co existence of the two The applications of such robotic systems include service robotics and physical human robot collaboration assistive and rehabilitation robotics semi autonomous cars etc To achieve the goal of integrating robotic systems into these applications several important research directions must be explored One such direction is the study of skill transfer where a human operator s skilled executions are used to obtain an autonomous controller Another important direction is shared control where a robotic controller and humans control the same body tool mechanism car etc Shared control in turn invokes very rich research questions such as co adaptation between the human and the robot where the two agents can benefit from each other s skills or must adapt to each other s behavior to achieve effective cooperative task executions The aim of this Research Topic is to help bridge the gap between the state of the art

and above mentioned goals through novel multidisciplinary approaches in human in the loop robot control and learning

Electroactive Polymer Gel Robots Mihoko Otake, 2010-03-10 By the dawn of the new millennium robotics has undergone a major transformation in scope and dimensions This expansion has been brought about by the maturity of the field and the advances in its related technologies From a largely dominant industrial focus robotics has been rapidly expanding into the challenges of the human world The new generation of robots is expected to safely and dependably co-habitat with humans in homes workplaces and communities providing support in services entertainment education health care manufacturing and assistance Beyond its impact on physical robots the body of knowledge robotics has produced is revealing a much wider range of applications reaching across diverse research areas and scientific disciplines such as biomechanics haptics neurosciences virtual simulation animation surgery and sensor networks among others In return the challenges of the new emerging areas are providing an abundant source of stimulation and insights for the field of robotics It is indeed at the intersection of disciplines that the most striking advances happen The goal of the series of Springer Tracts in Advanced Robotics STAR 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

On-Line Trajectory Generation in Robotic Systems Torsten Kröger, 2010-02-04 By the dawn of the new millennium robotics has undergone a major transformation in scope and dimensions This expansion has been brought about by the maturity of the field and the advances in its related technologies From a largely dominant industrial focus robotics has been rapidly expanding into the challenges of the human world The new generation of robots is expected to safely and dependably co-habitat with humans in homes workplaces and communities providing support in services entertainment education health care manufacturing and assistance Beyond its impact on physical robots the body of knowledge robotics has produced is revealing a much wider range of applications reaching across diverse research areas and scientific disciplines such as biomechanics haptics neurosciences virtual simulation animation surgery and sensor networks among others In return the challenges of the new emerging areas are providing an abundant source of stimulation and insights for the field of robotics It is indeed at the intersection of disciplines that the most striking advances happen The goal of the series of Springer Tracts in Advanced Robotics STAR 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

Proceedings of the 11th International Conference on Modelling, Identification and Control (ICMIC2019) Rui Wang, Zengqiang Chen, Weicun Zhang, Quanmin Zhu, 2019-12-03 This book includes original peer reviewed research papers from the 11th International Conference on Modelling Identification and Control ICMIC2019 held in Tianjin China on July 13

15 2019 The topics covered include but are not limited to System Identification Linear Nonlinear Control Systems Data driven Modelling and Control Process Modelling and Process Control Fault Diagnosis and Reliable Control Intelligent Systems and Machine Learning and Artificial Intelligence The papers showcased here share the latest findings on methodologies algorithms and applications in modelling identification and control integrated with Artificial Intelligence AI making the book a valuable asset for researchers engineers and university students alike **IoT and AI in Agriculture**

Tofael Ahamed,2023-04-10 This book reviews recent innovations in the smart agriculture space that use the Internet of Things IoT and sensing to deliver Artificial Intelligence AI solutions to agricultural productivity in the agricultural production hubs In this regard South and Southeast Asia are one of the major agricultural hubs of the world facing challenges of climate change and feeding the fast growing population To address such challenges a transboundary approach along with AI and BIG data for bioinformatics are required to increase yield and minimize pre and post harvest losses in intangible climates to drive the sustainable development goal SDG for feeding a major part of the 9 billion population by 2050 Society 5.0 SDG 1.2 Therefore this book focuses on the solution through smart IoT and AI based agriculture including pest infestation and minimizing agricultural inputs for in house and fields production such as light water fertilizer and pesticides to ensure food security aligns with environmental sustainability It provides a sound understanding for creating new knowledge in line with comprehensive research and education orientation on how the deployment of tiny sensors AI Machine Learning ML controlled UAVs and IoT setups for sensing tracking collection processing and storing information over cloud platforms for nurturing and driving the pace of smart agriculture in this current time The book will appeal to several audiences and the contents are designed for researchers graduates and undergraduate students working in any area of machine learning deep learning in agricultural engineering smart agriculture and environmental science disciplines Utmost care has been taken to present a varied range of resource areas along with immense insights into the impact and scope of IoT AI and ML in the growth of intelligent digital farming and smart agriculture which will give comprehensive information to the targeted readers

The 2005 DARPA Grand Challenge Martin Buehler,Karl Iagnemma,Sanjiv Singh,2007-09-06 The DARPA Grand Challenge was a landmark in the field of robotics a race by autonomous vehicles through 132 miles of rough Nevada terrain It showcased exciting and unprecedented capabilities in robotic perception navigation and control The event took place in October 2005 and drew teams of competitors from academia and industry as well as many garage hobbyists This book presents fifteen technical papers that describe each team's driverless vehicle race strategy and insights As a whole they present the state of the art in autonomous vehicle technology and offer a glimpse of future technology for tomorrow's driverless cars **Spatial Temporal Patterns for Action-Oriented Perception in Roving Robots** Paolo Arena,Luca Patanè,2008-12-19 The basic principles guiding sensing perception and action in bio systems seem to rely on highly organised spatial temporal dynamics In fact all biological senses visual hearing tactile etc process signals coming from

different parts distributed in space and also show a complex time evolution As an example mammalian retina performs a parallel representation of the visual world embodied into layers each of which represents a particular detail of the scene These results clearly state that visual perception starts at the level of the retina and is not related uniquely to the higher brain centres Although vision remains the most useful sense guiding usual actions the other senses rest of all hearing but also touch become essential particularly in cluttered conditions where visual percepts are somehow obscured by environment conditions Efficient use of hearing can be learnt from acoustic perception in animals insects like crickets that use this ancient sense more than all the others to perform a vital function like mating FastSLAM Michael Montemerlo, Sebastian

Thrun, 2007-01-18 This monograph describes a new family of algorithms for the simultaneous localization and mapping SLAM problem in robotics called FastSLAM The FastSLAM type algorithms have enabled robots to acquire maps of unprecedented size and accuracy in a number of robot application domains and have been successfully applied in different dynamic environments including a solution to the problem of people tracking **Algorithmic Foundations of Robotics VIII**

Gregory S. Chirikjian, Howie Choset, Marco Morales, Todd Murphey, 2010-02-04 This book contains selected contributions to WAFR the highly competitive meeting on the algorithmic foundations of robotics They address the unique combination of questions that the design and analysis of robot algorithms inspires **Advances in Telerobotics** Manuel Ferre, Martin

Buss, Rafael Aracil, Claudio Melchiorri, Carlos Balaguer, 2007-08-10 A fascinating book that covers in detail all of the most recent advances in Telerobotics A must read for scientists researchers and students in teleoperation it describes everything from methods and experimental results to applications and developments Its three sections cover human system interfaces control and applications

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