



Algorithmic Foundations of Artificial Intelligence (AFI)

Gregory S. Chirikjian
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Algorithmic Foundations of Robotics VIII

Selected Contributions of the Eighth International
Workshop on the Algorithmic Foundations of Robotics

 Springer



**Algorithmic Foundations Of Robotics Viii Selected
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Algorithmic Foundations of Robotics VIII Gregory S. Chirikjian,Howie Choset,Marco Morales,Todd Murphey,2009-12-29 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 **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 **Algorithmic Foundations of Robotics IX** David Hsu,Volkan Isler,Jean-Claude Latombe,Ming C. Lin,2010-11-18 Robotics is at the cusp of dramatic transformation Increasingly complex robots with unprecedented autonomy are finding new applications from medical surgery to construction to home services Against this background the algorithmic foundations of robotics are becoming more crucial than ever in order to build robots that are fast safe reliable and adaptive Algorithms enable robots to perceive plan control and learn The design and analysis of robot algorithms raise new fundamental questions that span computer science electrical engineering mechanical engineering and mathematics These algorithms are also finding applications beyond robotics for example in modeling molecular motion and creating digital characters for video games and architectural simulation The Workshop on Algorithmic Foundations of Robotics WAFR is a highly selective meeting of leading researchers in the field of robot algorithms Since its creation in 1994 it has published some of the field s most important and lasting contributions This book contains the proceedings of the 9th WAFR held on December 13 15 2010 at the National University of Singapore The 24 papers included in this book span a wide variety of topics from new theoretical insights to novel applications **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 **Algorithmic Foundation of Robotics VII** Srinivas Akella,Nancy M. Amato,Wesley Huang,Bud Mishra,2008-08-27 Algorithms are a fundamental component of robotic systems they control or reason about motion and perception in the physical world They receive input from noisy sensors consider geometric and

physical constraints and operate on the world through imprecise actuators. The design and analysis of robot algorithms therefore raises a unique combination of questions in control theory, computational and differential geometry and computer science. This book contains the proceedings from the 2006 Workshop on the Algorithmic Foundations of Robotics. This biannual workshop is a highly selective meeting of leading researchers in the field of algorithmic issues related to robotics. The 32 papers in this book span a wide variety of topics from fundamental motion planning algorithms to applications in medicine and biology but they have in common a foundation in the algorithmic problems of robotic systems.

Robotics Research Makoto Kaneko, Yoshihiko Nakamura, 2010-11-30 The International Symposium of Robotics Research ISRR continues to be the premiere meeting of the International Foundation of Robotics Research IFRR. The 13th International Symposium of Robotics Research took place November 26-29, 2007 in Hiroshima, Japan and was organized by the two editors of this book. This volume brings a collection of a broad range of topics in robotics. The content of these contributions provides 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 novel areas of applications. Historically, the proceedings of the ISRR have featured ground breaking work of the highest caliber which influenced generations to come. The present volume promises to be no exception. The collection of scientific articles in this volume provides new insights to important problems in robotics written by some of the leaders in the field.

Field and Service Robotics Alonzo Kelly, Karl Iagnemma, Andrew Howard, 2010-06-28 Robotics is undergoing a major transformation in scope and dimension. From a largely dominant industrial focus, robotics is rapidly expanding into human environments and vigorously engaged in its new challenges. Interacting with, assisting, serving and exploring with humans, the emerging robots will increasingly touch people and their lives. 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 Springer Tracts in Advanced Robotics STAR is devoted to bringing to the research community the latest advances in the robotics field on the basis of their significance and quality. Through a wide and timely dissemination of critical research developments in robotics, our objective with this series is to promote more exchanges and collaborations among the researchers in the community and contribute to further advancements in this rapidly growing field.

Musical Robots and Interactive Multimodal Systems Jorge Solis, Kia Ng, 2011-07-25 Musical robotics is a multi and transdisciplinary research area involving a wide range of different domains that contribute to its development including computer science, multimodal interfaces and processing, artificial intelligence, electronics, robotics, mechatronics and more. A musical robot requires many different complex systems to work together integrating musical representation techniques.

expressions detailed analysis and controls for both playing and listening The development of interactive multimodal systems provides advancements which enable enhanced human machine interaction and novel possibilities for embodied robotic platforms This volume is focused on this highly exciting interdisciplinary field This book consists of 14 chapters highlighting different aspects of musical activities and interactions discussing cutting edge research related to interactive multimodal systems and their integration with robots to further enhance musical understanding interpretation performance education and enjoyment It is dichotomized into two sections Section I focuses on understanding elements of musical performance and expression while Section II concentrates on musical robots and automated instruments Musical Robots and Interactive Multimodal Systems provides an introduction and foundation for researchers students and practitioners to key achievements and current research trends on interactive multimodal systems and musical robotics

Structure from Motion using the Extended Kalman Filter Javier Civera, Andrew J. Davison, José María Martínez Montiel, 2011-11-09 The fully automated estimation of the 6 degrees of freedom camera motion and the imaged 3D scenario using as the only input the pictures taken by the camera has been a long term aim in the computer vision community The associated line of research has been known as Structure from Motion SfM An intense research effort during the latest decades has produced spectacular advances the topic has reached a consistent state of maturity and most of its aspects are well known nowadays 3D vision has immediate applications in many and diverse fields like robotics videogames and augmented reality and technological transfer is starting to be a reality This book describes one of the first systems for sparse point based 3D reconstruction and egomotion estimation from an image sequence able to run in real time at video frame rate and assuming quite weak prior knowledge about camera calibration motion or scene Its chapters unify the current perspectives of the robotics and computer vision communities on the 3D vision topic As usual in robotics sensing the explicit estimation and propagation of the uncertainty hold a central role in the sequential video processing and is shown to boost the efficiency and performance of the 3D estimation On the other hand some of the most relevant topics discussed in SfM by the computer vision scientists are addressed under this probabilistic filtering scheme namely projective models spurious rejection model selection and self calibration

Robotics Research Cédric Pradalier, Roland Siegwart, Gerhard Hirzinger, 2011-05-02 This volume presents a collection of papers presented at the 14th International Symposium of Robotic Research ISRR ISRR is the biennial meeting of the International Foundation of Robotic Research IFRR and its 14th edition took place in Lucerne Switzerland from August 31st to September 3rd 2009 As for the previous symposia ISRR 2009 followed up on the successful concept of a mixture of invited contributions and open submissions Half of the 48 presentations were therefore invited contributions from outstanding researchers selected by the IFRR officers and half were chosen among the 66 submissions after peer review This selection process resulted in a truly excellent technical program which we believe featured some of the very best of robotic research Out of the 48 presentations the 42 papers which were finally submitted for publication are organized in 8 sections

that encompass the major research orientations in robotics Navigation Control Planning Human Robot Interaction Manipulation and Humanoids Learning Mapping Multi Robot Systems and Micro Robotics They represent an excellent snapshot of cutting edge research in robotics and outline future directions 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 **Towards Service Robots for Everyday**

Environments Erwin Prassler, Rainer Bischoff, Wolfram Burgard, Robert Haschke, Martin Hägele, Gisbert Lawitzky, Bernhard Nebel, Paul Plöger, Ulrich Reiser, Marius Zöllner, 2012-03-14 People have dreamed of machines which would free them from unpleasant dull dirty and dangerous tasks and work for them as servants for centuries if not millennia Service robots seem to finally let these dreams come true But where are all these robots that eventually serve us all day long day for day A few service robots have entered the market domestic and professional cleaning robots lawnmowers milking robots or entertainment robots Some of these robots look more like toys or gadgets rather than real robots But where is the rest This is a question which is asked not only by customers but also by service providers care organizations politicians and funding agencies The answer is not very satisfying Today's service robots have their problems operating in everyday environments This is by far more challenging than operating an industrial robot behind a fence There is a comprehensive list of technical and scientific problems which still need to be solved To advance the state of the art in service robotics towards robots which are capable of operating in an everyday environment was the major objective of the DESIRE project Deutsche Service Robotik Initiative Germany Service Robotics Initiative funded by the German Ministry of Education and Research BMBF under grant no 01IME01A This book offers a sample of the results achieved in DESIRE **Robotic Systems for Handling and Assembly** Daniel Schütz, Friedrich Wahl, 2010-11-30 Although parallel robots are known to offer many advantages with

respect to accuracy dynamics and stiffness major breakthroughs in industrial applications have not yet taken place This is due to a knowledge gap preventing fast and precise execution of industrial handling and assembly tasks This book focuses on the design modeling and control of innovative parallel structures as well as the integration of novel machine elements Special attention is paid to the integration of active components into lightweight links and passive joints In addition new control concepts are introduced to minimize structural vibrations Although the optimization of robot systems itself allows a reduction of cycle times these can be further decreased by improved path planning robot programming and automated assembly planning concepts described by 25 contributions within this book The content of this volume is subdivided into four main parts dealing with Modeling and Design System Implementation Control and Programming as well as Adaptronics and Components This book is aimed at researchers and postgraduates working in the field of parallel robots as well as practicing engineers dealing with industrial robot development and robotic applications *Self-Organizing Robots* Satoshi

Murata, Haruhisa Kurokawa, 2012-01-22 It is man s ongoing hope that a machine could somehow adapt to its environment by reorganizing itself This is what the notion of self organizing robots is based on The theme of this book is to examine the feasibility of creating such robots within the limitations of current mechanical engineering The topics comprise the following aspects of such a pursuit the philosophy of design of self organizing mechanical systems self organization in biological systems the history of self organizing mechanical systems a case study of a self assembling self repairing system as an autonomous distributed system a self organizing robot that can create its own shape and robotic motion implementation and instrumentation of self organizing robots and the future of self organizing robots All topics are illustrated with many up to date examples including those from the authors own work The book does not require advanced knowledge of mathematics to be understood and will be of great benefit to students in the robotics discipline including in the areas of mechanics control electronics and computer science It is also an important source for researchers who wish to investigate the field of robotics or who have an interest in the application of self organizing phenomena **Atomic Force Microscopy Based**

Nanorobotics Hui Xie, Cagdas Onal, Stéphane Régnier, Metin Sitti, 2011-09-25 The atomic force microscope AFM has been successfully used to perform nanorobotic manipulation operations on nanoscale entities such as particles nanotubes nanowires nanocrystals and DNA since 1990s There have been many progress on modeling imaging teleoperated or automated control human machine interfacing instrumentation and applications of AFM based nanorobotic manipulation systems in literature This book aims to include all of such state of the art progress in an organized structured and detailed manner as a reference book and also potentially a textbook in nanorobotics and any other nanoscale dynamics systems and controls related research and education Clearly written and well organized this text introduces designs and prototypes of the nanorobotic systems in detail with innovative principles of three dimensional manipulation force microscopy and parallel imaging manipulation force microscopy **Underwater SLAM for Structured Environments Using an Imaging Sonar**

David Ribas, Pere Ridao, José Neira, 2010-07-28 Robotics is undergoing a major transformation in scope and dimension. From a largely dominant industrial focus, robotics is rapidly expanding into human environments and is vigorously engaged in its new challenges. Interacting with, assisting, serving, and exploring with humans, the emerging robots will increasingly touch people and their lives. Beyond its impact on physical robots, the body of knowledge in robotics has produced, is revealing, and is reaching 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 Springer Tracts in Advanced Robotics STAR is devoted to bringing to the research community the latest advances in the robotics field on the basis of their significance and quality. Through a wide and timely dissemination of critical research developments in robotics, our objective with this series is to promote more exchanges and collaborations among the researchers in the community and contribute to further advancements in this rapidly growing field.

Electroactive Polymer Gel Robots Mihoko Otake, 2010-02-23 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 in robotics has produced, is revealing, and is reaching 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.

Semantic Labeling of Places with Mobile Robots Óscar Martínez Mozos, 2010-02-04 During the last years, there has been an increasing interest in the area of service robots. Under this category, we find robots working in tasks such as elderly care, guiding, office, and domestic assistance, inspection, and many more. Service robots usually work in indoor environments designed for humans, with offices and houses being some of the most typical examples. These environments are typically divided into places with different functionalities like corridors, rooms, or doorways. The ability to learn such semantic categories from sensor data enables a mobile robot to extend its representation of the environment and to improve its

capabilities As an example natural language terms like corridor or room can be used to indicate the position of the robot in a more intuitive way when communicating with humans This book presents several approaches to enable a mobile robot to categorize places in indoor environments The categories are indicated by terms which represent the different regions in these environments The objective of this work is to enable mobile robots to perceive the spatial divisions in indoor environments in a similar way as people do This is an interesting step forward to the problem of moving the perception of robots closer to the perception of humans Many approaches introduced in this book come from the area of pattern recognition and classification The applied methods have been adapted to solve the specific problem of place recognition In this regard this work is a useful reference to students and researchers who want to introduce classification techniques to help solve similar problems in mobile robotics

Virtual Decomposition Control Wen-Hong Zhu, 2010-03-29 Driven by the need to achieve superior control performances for robots with hyper degrees of freedom the virtual decomposition control approach is thoroughly presented in this book This approach uses subsystem such as links and joints of a complex robot dynamics to conduct control design while guaranteeing the stability and convergence of the entire complex robot without compromising the rigorousness of the system analysis The central concept of this approach is the definition of the virtual stability The stability of the entire complex robot is mathematically equivalent to the virtual stability of every subsystem This fact allows us to convert a large problem to a few simple problems with mathematical certainty This book comprises fourteen chapters The first five chapters form the foundation of this approach The remaining nine chapters are relatively independent Starting from Chapter 6 each chapter deals with a particular type of systems including motor transmission assemblies hydraulic robots coordinated multiple robots space robots humanoid robots adaptive teleoperation and modular robot manipulators At the end the extensions of this approach to distributed parameter systems and to electrical circuits are given paving the way for other applications to follow This book is intended for practitioners researchers and graduate students who have acquired fundamental knowledge on robotics and control systems and have been committed to achieving the best control performances on complex robotics systems and beyond

Exoskeletons in Rehabilitation Robotics Eduardo Rocon, José L. Pons, 2011-01-19 The new technological advances opened widely the application field of robots Robots are moving from the classical application scenario with structured industrial environments and tedious repetitive tasks to new application environments that require more interaction with the humans It is in this context that the concept of Wearable Robots WRs has emerged One of the most exciting and challenging aspects in the design of biomechatronics wearable robots is that the human takes a place in the design this fact imposes several restrictions and requirements in the design of this sort of devices The key distinctive aspect in wearable robots is their intrinsic dual cognitive and physical interaction with humans The key role of a robot in a physical human robot interaction pHRI is the generation of supplementary forces to empower and overcome human physical limits The crucial role of a cognitive human robot

interaction cHRI is to make the human aware of the possibilities of the robot while allowing them to maintain control of the robot at all times This book gives a general overview of the robotics exoskeletons and introduces the reader to this robotic field Moreover it describes the development of an upper limb exoskeleton for tremor suppression in order to illustrate the influence of a specific application in the designs decisions

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