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Bruno Siciliano
Paolo Dario (Eds.)

Experimental Robotics VIII



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Katrin Zwirgmaier



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Experimental Robotics VIII Bruno Siciliano, Paolo Dario, 2003-09-05 This book collects papers on the state of the art in experimental robotics Experimental Robotics is at the core of validating robotics research for both its systems science and theoretical foundations Because robotics experiments are carried out on physical complex machines whose controllers are subject to uncertainty devising meaningful experiments and collecting statistically significant results pose important and unique challenges in robotics Robotics experiments serve as a unifying theme for robotics system science and algorithmic foundations These observations have led to the creation of the International Symposia on Experimental Robotics The papers of the book were presented at the 2002 International Symposium on Experimental Robotics 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 Cooperative Robots and Sensor Networks 2015 Anis Koubâa, J. Ramiro Martínez-de Dios, 2015-05-18 This book compiles some of the latest research in cooperation between robots and sensor networks Structured in twelve chapters this book addresses fundamental theoretical implementation and experimentation issues The chapters are organized into four parts namely multi robots systems data fusion and localization security and dependability and mobility

The Synthesis of Three Dimensional Haptic Textures: Geometry, Control, and Psychophysics Gianni Campion, 2011-05-16 The sense of touch is fundamental during the interaction between humans and their environment in virtual reality objects are created by computer simulations and they can be experienced through haptic devices In this context haptic textures are fundamental for a realistic haptic perception of virtual objects This book formalizes the specific artefacts corrupting the rendering of virtual haptic textures and offers a set of simple conditions to guide haptic researchers towards artefact free textures The conditions identified are also extremely valuable when designing psychophysical experiments and when analyzing the significance of the data collected The Synthesis of Three Dimensional Haptic Textures Geometry Control and Psychophysics examines the problem of rendering virtual haptic textures with force feedback devices The author provides an introduction to the topic of haptic textures that covers the basics of the physiology of the skin the psychophysics of roughness perception and the engineering challenges behind haptic textures rendering The book continues with the presentation of a novel mathematical framework that characterizes haptic devices texturing algorithms and their ability to generate realistic haptic textures Finally two psychophysical experiments link the perception of roughness with the parameters of the haptic rendering algorithms This book formalizes the specific artefacts corrupting the rendering of virtual haptic textures and offers a set of simple conditions to guide haptic researchers towards artefact free textures The conditions identified are also extremely valuable when designing psychophysical experiments and when analyzing the significance of the data collected

Redundancy in Robot Manipulators and

Multi-Robot Systems Dejan Milutinović, Jacob Rosen, 2012-10-12 The trend in the evolution of robotic systems is that the number of degrees of freedom increases This is visible both in robot manipulator design and in the shift of focus from single to multi robot systems Following the principles of evolution in nature one may infer that adding degrees of freedom to robot systems design is beneficial However since nature did not select snake like bodies for all creatures it is reasonable to expect the presence of a certain selection pressure on the number of degrees of freedom Thus understanding costs and benefits of multiple degrees of freedom especially those that create redundancy is a fundamental problem in the field of robotics This volume is mostly based on the works presented at the workshop on Redundancy in Robot Manipulators and Multi Robot Systems at the IEEE RSJ International Conference on Intelligent Robots and Systems IROS 2011 The workshop was envisioned as a dialog between researchers from two separate but obviously related fields of robotics one that deals with systems having multiple degrees of freedom including redundant robot manipulators and the other that deals with multirobot systems The volume consists of twelve chapters each representing one of the two fields

Human Haptic Perception Martin Grunwald, 2008-12-10 Haptic perception human beings active sense of touch is the most complex of human sensory systems and has taken on growing importance within varied scientific disciplines as well as in practical industrial fields This book s international team of authors presents the most comprehensive collection of writings on the subject published to date and cover the results of research as well as practical applications After an introduction to the theory and history of the field subsequent chapters are dedicated to the neuro physiological basics as well as the psychological and clinical neuro psychological aspects of haptic perception

FastSLAM Michael Montemerlo, Sebastian Thrun, 2007-04-27 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

Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies Majaranta, Päivi, 2011-10-31 Recent advances in eye tracking technology will allow for a proliferation of new applications Improvements in interactive methods using eye movement and gaze control could result in faster and more efficient human computer interfaces benefitting users with and without disabilities *Gaze Interaction and Applications of Eye Tracking Advances in Assistive Technologies* focuses on interactive communication and control tools based on gaze tracking including eye typing computer control and gaming with special attention to assistive technologies For researchers and practitioners interested in the applied use of gaze tracking the book offers instructions for building a basic eye tracker from off the shelf components gives practical hints on building interactive applications presents smooth and efficient interaction techniques and summarizes the results of effective research on cutting edge gaze interaction applications

Rising Stars in Human-Robot Interaction Bilge Mutlu, Ginevra Castellano, James Everett Young, Séverin Lemaignan, Adriana

Tapus,2022-08-11 *American Book Publishing Record* ,2004 **Experimental Robotics** Oussama Khatib,Vijay Kumar,Daniela Rus,2008-01-30 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 assisting serving and exploring with humans the emerging robots will increasingly touch people and their lives The goal of the new 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 Since its inception wanted by my STAR Co Editor Oussama Khatib some twenty years ago the International Symposium on Experimental Robotics ISER was published by Springer Since the two past editions ISER has found a more suitable home under STAR together with other thematic symposia devoted to excellence in robotics research **Experimental Robotics** Oussama Khatib,Vijay Kumar,Gaurav Sukhatme,2013-08-20 Incorporating papers from the 12th International Symposium on Experimental Robotics ISER December 2010 this book examines the latest advances across the various fields of robotics Offers insights on both theoretical concepts and experimental results **Proceedings 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems** ,2003 **German books in print** ,2002 **Physics Briefs** ,1991 Experimental Robotics Oussama Khatib,Vijay Kumar,George Pappas,2009-03-28 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 **Springer Tracts in Advanced Robotics** B. Siciliano,O. Khatib,F. Groen, **Experimental Robotics** Marcelo H. Ang Jr,Oussama Khatib,2024-08-05 This book presents scientific and practical developments in the emerging trends of human-centric robotics in unstructured

environments covering Human Robot Collaboration Mobile Robotics and Manipulation Field Robotics Aerial Robotics Humanoids and Autonomous Driving It offers insights into the latest scientific and technological development in robot human interactions advanced autonomy and robust designs for real world applications This edition s approach is characterized by strong scientific developments backed by practical applications offering detailed case studies and experimental data that support the theoretical foundations of robotic technology By emphasizing the application side of research it encourages readers to consider not only theoretical advancements in robotics but also the implications and opportunities for real world integration

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2009 **Experimental Robotics IX** Marcelo H. Ang,Oussama Khatib,2006-03-09 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 novelty of theoretical contributions validated by experimental results The meetings are conceived to bring together in a small group setting researchers from around the world who are in the forefront of experimental robotics research This unique reference presents the latest advances across the various fields of robotics with ideas that are not only conceived conceptually but also verified experimentally It collects contributions on the current developments and new directions in the field of experimental robotics which are based on the papers presented at the Ninth ISER held in Singapore

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