

# Nikolaus Vahrenkamp

Norman I. Badler,Cary B. Phillips,Bonnie Lynn Webber

Software Architectures for Humanoid Robotics Lorenzo Natale, Tamim Asfour, Fumio Kanehiro, Nikolaus Vahrenkamp, 2018-10-11

*Motion Planning for Humanoid Robots* Kensuke Harada, Eiichi Yoshida, Kazuhito Yokoi, 2010-08-12 Research on humanoid robots has been mostly with the aim of developing robots that can replace humans in the performance of certain tasks. Motion planning for these robots can be quite difficult, due to their complex kinematics, dynamics and environment. It is consequently one of the key research topics in humanoid robotics research and the last few years have witnessed considerable progress in the field. Motion Planning for Humanoid Robots surveys the remarkable recent advancement in both the theoretical and the practical aspects of humanoid motion planning. Various motion planning frameworks are presented in Motion Planning for Humanoid Robots, including one for skill coordination and learning, and one for manipulating and grasping tasks. The problem of planning sequences of contacts that support acyclic motion in a highly constrained environment is addressed and a motion planner that enables a humanoid robot to push an object to a desired location on a cluttered table is described. The main areas of interest include: • whole body motion planning, • task planning, • biped gait planning, and • sensor feedback for motion planning. Torque-level control of multi-contact behavior, autonomous manipulation of moving obstacles, and movement control and planning architecture are also covered. Motion Planning for Humanoid Robots will help readers to understand the current research on humanoid motion planning. It is written for industrial engineers, advanced undergraduate and postgraduate students.

**A Contribution to Resource-Aware Architectures for Humanoid Robots** Kroehnert, Manfred, 2017-05-09

*Intelligent Autonomous Systems 10* Wolfram Burgard, 2008 The International Conference on Intelligent Autonomous Systems (IAS) conference brings together leading researchers interested in all aspects of autonomy and adaptivity of artificial systems. This book contains the proceedings of the tenth IAS in Baden Baden, Germany.

*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.

Bewegungsplanung und sensorgestützte Ausführung für das Greifen auf humanoiden Robotern Nikolaus Vahrenkamp, 2014-08-22 Zielsetzung dieser Arbeit ist die Untersuchung, Entwicklung und Realisierung von Algorithmen zur Planung und Ausführung von Greif- und Manipulationsaufgaben auf humanoiden Robotern. Die hierzu entwickelten Methoden ermöglichen die Planung kollisionsfreier Bewegungen für ein- und zweiarmige Aufgabenstellungen sowie deren sensorgestützte Ausführung.

*Toward Humanoid Robots: The Role of Fuzzy Sets* Cengiz Kahraman, Eda Bolturk, 2021-04-04 This book offers a comprehensive reference guide for modeling humanoid robots using intelligent and fuzzy systems. It provides readers with the necessary intelligent and fuzzy tools for controlling humanoid robots by incomplete, vague, and imprecise information or insufficient data, where classical modeling approaches cannot be applied. The respective chapters, written by prominent researchers, explain a wealth of both basic and advanced concepts including fuzzy control, metaheuristic-based control, neutrosophic control, etc. To foster reader comprehension, all chapters include relevant numerical examples or case studies. Taken together, they form an excellent reference guide for researchers, lecturers, and postgraduate students pursuing research on humanoid robots. Moreover, by extending all the main aspects of humanoid robots to its intelligent and fuzzy counterparts, the book presents a dynamic snapshot of the field that is expected to stimulate new directions, ideas, and developments.

Whole-Body Affordances for Humanoid Robots: A Computational Approach Kaiser, Peter, 2018-08-29

Learning and Execution of Object Manipulation Tasks on Humanoid Robots Waechter, Mirko, 2018-03-21 Equipping robots with complex capabilities still requires a great amount of effort. In this work, a novel approach is proposed to understand, to represent and to execute object manipulation tasks learned from observation by combining methods of data analysis, graphical modeling and artificial intelligence. Employing this approach enables robots to reason about how to solve tasks in dynamic environments and to adapt to unseen situations.

Human-Inspired Balancing and Recovery Stepping for Humanoid Robots Kaul, Lukas Sebastian, 2019-05-15 Robustly maintaining balance on two legs is an important challenge for humanoid robots. The work presented in this book represents a contribution to this area. It investigates efficient methods for the decision-making from internal sensors about whether and where to step, several improvements to efficient whole-body postural

balancing methods, and proposes and evaluates a novel method for efficient recovery step generation, leveraging human examples and simulation-based reinforcement learning.

*Visual Perception for Humanoid Robots* David Israel González Aguirre, 2018-09-01 This book provides an overview of model-based environmental visual perception for humanoid robots. The visual perception of a humanoid robot creates a bidirectional bridge connecting sensor signals with internal representations of environmental objects. The objective of such perception systems is to answer two fundamental questions: What & where is it? To answer these questions using a sensor-to-representation bridge, coordinated processes are conducted to extract and exploit cues matching robot's mental representations to physical entities. These include sensor & actuator modeling, calibration, filtering, and feature extraction for state estimation. This book discusses the following topics in depth: • Active Sensing: Robust probabilistic methods for optimal, high dynamic range image acquisition are suitable for use with inexpensive cameras. This enables ideal sensing in arbitrary environmental conditions encountered in human-centric spaces. The book quantitatively shows the importance of equipping robots with dependable visual sensing. • Feature Extraction & Recognition: Parameter-free, edge extraction methods based on structural graphs enable the representation of geometric primitives effectively and efficiently. This is done by eccentricity segmentation providing excellent recognition even on noisy & low-resolution images. Stereoscopic vision, Euclidean metric and graph-shape descriptors are shown to be powerful mechanisms for difficult recognition tasks. • Global Self-Localization & Depth Uncertainty Learning: Simultaneous feature matching for global localization and 6D self-pose estimation are addressed by a novel geometric and probabilistic concept using intersection of Gaussian spheres. The path from intuition to the closed-form optimal solution determining the robot location is described, including a supervised learning method for uncertainty depth modeling based on extensive ground-truth training data from a motion capture system. The methods and experiments are presented in self-contained chapters with comparisons and the state of the art. The algorithms were implemented and empirically evaluated on two humanoid robots: ARMAR III-A & B. The excellent robustness, performance and derived results received an award at the IEEE conference on humanoid robots and the contributions have been utilized for numerous visual manipulation tasks with demonstration at distinguished venues such as ICRA, CeBIT, IAS, and Automatica.

*Visual Perception for Manipulation and Imitation in Humanoid Robots* Pedram Azad, 2009-11-19 Dealing with visual perception in robots and its applications to manipulation and imitation, this monograph focuses on stereo-based methods and systems for object recognition and 6 DoF pose estimation as well as for marker-less human motion capture.

*Grasping in Robotics* Giuseppe Carbone, 2012-11-15 Grasping in Robotics contains original contributions in the field of grasping in robotics with a broad multidisciplinary approach. This gives the possibility of addressing all the major issues related to robotized grasping, including milestones in grasping through the centuries, mechanical design issues, control issues, modelling achievements and issues, formulations and software for simulation purposes, sensors and vision integration, applications in industrial field and non-conventional applications (including service robotics and agriculture). The contributors to this book are experts in their own diverse and wide ranging fields. This multidisciplinary approach can help make Grasping in Robotics of interest to a very wide audience. In particular, it can be a useful reference book for researchers, students and users in the wide field of grasping in robotics from many different disciplines including mechanical design, hardware design, control design, user interfaces, modelling, simulation, sensors and humanoid robotics. It could even be adopted as a reference textbook in specific PhD courses.

*Organisation, Repräsentation und Analyse menschlicher Ganzkörperbewegung fuer die datengetriebene Bewegungsgenerierung bei humanoiden Robotern* Mandery, Christian, 2017-11-30

*Bewegungsplanung und sensorgestützte Ausführung für das Greifen auf humanoiden Robotern* Nikolaus Vahrenkamp, 2011

Humanoid Robotics: A Reference Prahlad Vadakkepat, AMBARISH GOSWAMI, 2017-02-14 Humanoid Robotics provides a comprehensive compilation of developments in the conceptualization, design and development of humanoid robots and related technologies. Human beings have built the environment they occupy (living spaces, instruments and vehicles) to suit two-legged systems. Building systems, especially in robotics, that are compatible with the well-established, human-based surroundings and which could naturally interact with humans is an ultimate goal for all researches and engineers. Humanoid Robots are systems (i.e. robots) which mimic human behavior. Humanoids provide a platform to study the construction of systems that behave and interact like humans. A broad range of applications ranging from daily housework to complex medical surgery, deep ocean exploration, and other potentially dangerous tasks are possible using humanoids. In addition, the study of humanoid robotics provides a platform to understand the mechanisms and offers a physical visual of how humans interact, think, and react with the surroundings and how such behaviors could be reassembled and reconstructed. Currently, the most challenging issue with bipedal humanoids is to make them balance on two legs, The purportedly simple act of finding the best balance that enables easy walking, jumping and running requires some of the most sophisticated development of robotic systems- those that will ultimately mimic fully the diversity and dexterity of human beings. Other typical human-like interactions such as complex thought and conversations on the other hand, also pose barriers for the development of humanoids because we are yet to understand fully the way in which we

humans interact with our environment and consequently to replicate this in humanoids.

Active Vision for Scene Understanding Grotz, Markus,2021-12-21 Visual perception is one of the most important sources of information for both humans and robots. A particular challenge is the acquisition and interpretation of complex unstructured scenes. This work contributes to active vision for humanoid robots. A semantic model of the scene is created, which is extended by successively changing the robot's view in order to explore interaction possibilities of the scene.

British Humanities Index ,2006

*Adaptive and Learning Systems* Kumpati S. Narendra,2013-11-22 This volume offers a glimpse of the status of research in adaptive and learning systems in 1985. In recent years these areas have spawned a multiplicity of ideas so rapidly that the average research worker or practicing engineer is overwhelmed by the flood of information. The Yale Workshop on Applications of Adaptive Systems Theory was organized in 1979 to provide a brief respite from this deluge, wherein critical issues may be examined in a calm and collegial environment. The fourth of the series having been held in May 1985, it has now become well established as a biennial forum for the lively exchange of ideas in the ever changing domain of adaptive systems. The scope of this book is broad and ranges from theoretical investigations to practical applications. It includes twenty eight papers by leaders in the field, selected from the Pro ceedings of the Fourth Yale Workshop and divided into five sections. I have provided a brief introduction to each section so that it can be read as a self-contained unit. The first section, devoted to adaptive control theory, suggests the intensity of activity in the field and reveals signs of convergence towards some common themes by workers with rather different moti vation. Preliminary results concerning the reduced order model problem are dramatically changing the way we view the field and bringing it closer to other areas such as robust linear control where major advances have been recently reported.

*Simulating Humans* Norman I. Badler,Cary B. Phillips,Bonnie Lynn Webber,1993-09-02 The area of simulated human figures is an active research area in computer graphics, and Norman Badler's group at the University of Pennsylvania is one of the leaders in the field. This book summarizes the state of the art in simulating human figures, discusses many of the interesting application areas, and makes some assumptions and predictions about where the field is going.

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through Nikolaus Vahrenkamp

In some sort of inundated with monitors and the cacophony of fast connection, the profound energy and mental resonance of verbal artistry usually disappear into obscurity, eclipsed by the continuous assault of sound and distractions. However, nestled within the musical pages of Nikolaus Vahrenkamp, a charming work of literary brilliance that impulses with raw emotions, lies an unforgettable journey waiting to be embarked upon. Written by a virtuoso wordsmith, this magical opus guides readers on an emotional odyssey, delicately exposing the latent possible and profound affect embedded within the complex web of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is key themes, dissect their fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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Nikolaus Vahrenkamp Introduction

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