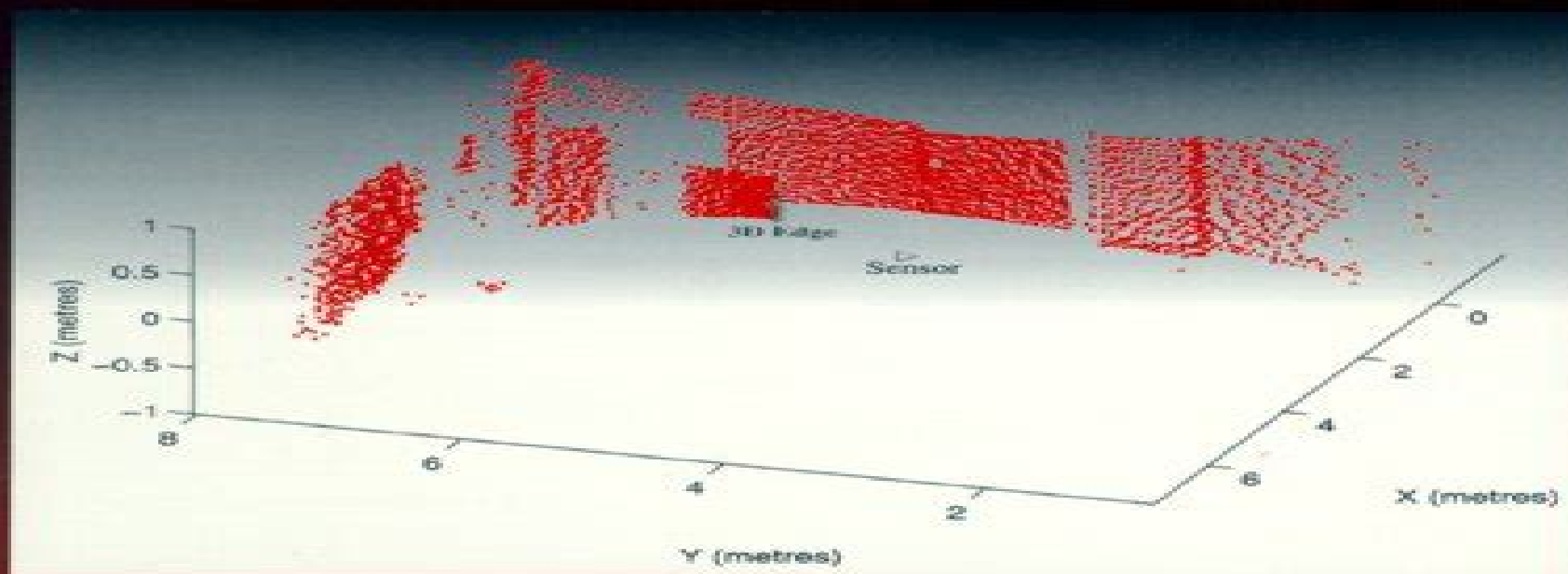


Sensor Modelling, Design and Data Processing for Autonomous Navigation



Martin David Adams

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Sensor Modelling, Design and Data Processing for Autonomous Navigation Martin David Adams, 1999 This invaluable book presents an unbiased framework for modelling and using sensors to aid mobile robot navigation It addresses the problem of accurate and reliable sensing in confined environments and makes a detailed analysis of the design and construction of a low cost optical range finder This is followed by a quantitative model for determining the sources and propagation of noise within the sensor The physics behind the causes of erroneous data is also used to derive a model for detecting and labelling such data as false In addition the author's data processing algorithms are applied to the problem of environmental feature extraction This forms the basis of a solution to the problem of mobile robot localisation The book develops a relationship between the kinematics of a mobile robot during the execution of successive manoeuvres and the sensed features Results which update a mobile vehicle's position using features from 2D and 3D scans are presented

Computer Vision in Control Systems-2 Margarita N. Favorskaya, Lakhmi C. Jain, 2014-10-30 The research book is focused on the recent advances in computer vision methodologies and innovations in practice The Contributions include Human Action Recognition Contour Based and Silhouette based Approaches The Application of Machine Learning Techniques to Real Time Audience Analysis System Panorama Construction from Multi view Cameras in Outdoor Scenes A New Real Time Method of Contextual Image Description and Its Application in Robot Navigation and Intelligent Control Perception of Audio Visual Information for Mobile Robot Motion Control Systems Adaptive Surveillance Algorithms Based on the Situation Analysis Enhanced Synthetic and Combined Vision Technologies for Civil Aviation Navigation of Autonomous Underwater Vehicles Using Acoustic and Visual Data Processing Efficient Denoising Algorithms for Intelligent Recognition Systems Image Segmentation Based on Two dimensional Markov Chains The book is directed to the PhD students professors researchers and software developers working in the areas of digital video processing and computer vision technologies

Introduction to Autonomous Mobile Robots, second edition Roland Siegwart, Illah Reza Nourbakhsh, Davide Scaramuzza, 2011-02-18 The second edition of a comprehensive introduction to all aspects of mobile robotics from algorithms to mechanisms Mobile robots range from the Mars Pathfinder mission's teleoperated Sojourner to the cleaning robots in the Paris Metro This text offers students and other interested readers an introduction to the fundamentals of mobile robotics spanning the mechanical motor sensory perceptual and cognitive layers the field comprises The text focuses on mobility itself offering an overview of the mechanisms that allow a mobile robot to move through a real world environment to perform its tasks including locomotion sensing localization and motion planning It synthesizes material from such fields as kinematics control theory signal analysis computer vision information theory artificial intelligence and probability theory The book presents the techniques and technology that enable mobility in a series of interacting modules Each chapter treats a different aspect of

mobility as the book moves from low level to high level details It covers all aspects of mobile robotics including software and hardware design considerations related technologies and algorithmic techniques This second edition has been revised and updated throughout with 130 pages of new material on such topics as locomotion perception localization and planning and navigation Problem sets have been added at the end of each chapter Bringing together all aspects of mobile robotics into one volume Introduction to Autonomous Mobile Robots can serve as a textbook or a working tool for beginning practitioners Curriculum developed by Dr Robert King Colorado School of Mines and Dr James Conrad University of North Carolina Charlotte to accompany the National Instruments LabVIEW Robotics Starter Kit are available Included are 13 6 by Dr King and 7 by Dr Conrad laboratory exercises for using the LabVIEW Robotics Starter Kit to teach mobile robotics concepts

Wavelets in Soft Computing Marc Thuillard,2001 This book presents the state of integration of wavelet theory and multiresolution analysis into soft computing It is the first book on hybrid methods combining wavelet analysis with fuzzy logic neural networks or genetic algorithms Much attention is given to new approaches fuzzy wavelet that permit one to develop using wavelet techniques linguistically interpretable fuzzy systems from data The book also introduces the reader to wavelet based genetic algorithms and multiresolution search A special place is given to methods that have been implemented in real world applications particularly the different techniques combining fuzzy logic or neural networks with wavelet theory Contents Introduction to Wavelet Theory Pre Processing The Multiresolution Approach Spline Based Wavelets Approximation and Compression Algorithms Automatic Generation of a Fuzzy System with Wavelet Based Methods On Line Learning Nonparametric Wavelet Based Estimation and Regression Techniques Developing Intelligent Products Genetic Algorithms and Multiresolution Readership Graduate students researchers academics lecturers and industrialists in fuzzy logic Fuzzy Decision Making in Modeling and Control Jo?o M. C. Sousa,Uzay Kaymak,2002 Decision making and control are two fields with distinct methods for solving problems and yet they are closely related This book bridges the gap between decision making and control in the field of fuzzy decisions and fuzzy control and discusses various ways in which fuzzy decision making methods can be applied to systems modeling and control Fuzzy decision making is a powerful paradigm for dealing with human expert knowledge when one is designing fuzzy model based controllers The combination of fuzzy decision making and fuzzy control in this book can lead to novel control schemes that improve the existing controllers in various ways The following applications of fuzzy decision making methods for designing control systems are considered Fuzzy decision making for enhancing fuzzy modeling The values of important parameters in fuzzy modeling algorithms are selected by using fuzzy decision making Fuzzy decision making for designing signal based fuzzy controllers The controller mappings and the defuzzification steps can be obtained by decision making methods Fuzzy design and performance specifications in model based control Fuzzy constraints and fuzzy goals are used Design of model based controllers combined with fuzzy decision modules Human operator experience is incorporated for the performance specification in model based control The

advantages of bringing together fuzzy control and fuzzy decision making are shown with multiple examples from real and simulated control systems

Active Sensors for Local Planning in Mobile Robotics Penelope Probert Smith, 2001 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

Constrained Dynamics Computations Bud Fox, Leslie Stephen Jennings, Albert Y. Zomaya, 2000 A practical approach to the modelling and computation of real world systems Multibody dynamics planar and spatial modelling and numerical methods are all pursued to obtain information about the behaviour of various dynamical systems Each study presents the method of modelling and the ensuing differential equations governing the system behaviour Integration of the equations yields results which are carefully discussed and which indicate how useful information may be obtained from the study The studies include planar mechanisms heavy equipment automobile crash simulation and a spatial planetary system example

Evolutionary Robotics: From Algorithms To Implementations Ling-feng Wang, Kay Chen Tan, Chee-meng Chew, 2006-07-17 This invaluable book comprehensively describes evolutionary robotics and computational intelligence and how different computational intelligence techniques are applied to robotic system design It embraces the most widely used evolutionary approaches with their merits and drawbacks presents some related experiments for robotic behavior evolution and the results achieved and shows promising future research directions Clarity of explanation is emphasized such that a modest knowledge of basic evolutionary computation digital circuits and engineering design will suffice for a thorough understanding of the material The book is ideally suited to computer scientists practitioners and researchers keen on computational intelligence techniques especially the evolutionary algorithms in autonomous robotics at both the hardware and software levels

Constrained Dynamics Computations: Models & Case Studies Bud Fox, Leslie Stephen Jennings, Albert Y Zomaya, 2000-09-04 This book introduces a practical approach to the modelling and computation of real world systems Multibody dynamics planar and spatial modelling and numerical methods are all pursued to obtain information about the behaviour of various dynamical systems Each study presents the method of modelling and the ensuing differential equations governing the system behaviour Integration of the equations yields results which are carefully discussed and which indicate how useful information may be obtained from the study The studies include planar mechanisms heavy equipment automobile crash simulation and a spatial planetary system

example Research students scientists and engineers will appreciate the practical approach taken in this book Emerging Research in Intelligent Systems Gonzalo Fernando Olmedo Cifuentes, Diego Gustavo Arcos Avilés, Hernán Vinicio Lara Padilla, 2025-05-24 This book presents the proceedings of the XIX International Multidisciplinary Congress on Science and Technology CIT 2024 held virtually from October 21 to 25 2024 It showcases cutting edge research and innovative solutions across various disciplines including Artificial Intelligence Computational Modeling Software Engineering and Security Additionally this volume explores key areas such as Defense Engineering Innovation Technology and Society Managing Technology and Sustained Innovation and Business Development along with broader domains like Life Sciences and Agriculture Economic and Administrative Sciences Human and Social Sciences Security and Defense and Medical Sciences It is designed for researchers postgraduate students and educators serving as a fundamental reference for advancing knowledge a valuable academic resource and a practical guide for industry professionals by fostering collaboration between academia and industry it promotes innovation facilitates interdisciplinary exchange and contributes to solving global challenges in science and technology **American Book Publishing Record** ,1998 **Sci-tech News** ,1999

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Springer Handbook of Robotics Bruno Siciliano, Oussama Khatib, 2008-05-20 With the science of robotics undergoing a major transformation just now Springer's new authoritative handbook on the subject couldn't have come at a better time Having broken free from its origins in industry robotics has been rapidly expanding into the challenging terrain of unstructured environments Unlike other handbooks that focus on industrial applications the Springer Handbook of Robotics incorporates these new developments Just like all Springer Handbooks it is utterly comprehensive edited by internationally renowned experts and replete with contributions from leading researchers from around the world The handbook is an ideal

resource for robotics experts but also for people new to this expanding field *Proceedings 2002 IEEE/RSJ International Conference on Intelligent Robots and Systems ,2002* *Distributed Autonomous Robotic Systems 2* Hajime Asama,Toshio Fukuda,Tamio Arai,Isao Endo,2013-06-29 Great interest is now focused on distributed autonomous robotic systems DARS as a new strategy for the realization of flexible robust and intelligent robots Inspired by autonomous decentralized and self organizing biological systems the field of DARS encompasses broad interdisciplinary technologies related not only to robotics and computer engineering but also to biology and psychology The rapidly growing interest in this new area of research was manifest in the first volume of Distributed Autonomous Robotic Systems published in 1994 This second volume in the series presents the most recent work by eminent researchers and includes such topics as multirobot control distributed robotic systems design self organizing systems and sensing and navigation for cooperative robots Distributed Autonomous Robotic Systems 2 is a valuable source for those whose work involves robotics and will be of great interest to those in the fields of artificial intelligence self organizing systems artificial life and computer science

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