



Intelligent Robotics Robotics Series

V. Hunt



Intelligent Robotics Robotics Series:

Intelligent Robotics Mark H. Lee, 1989 *Intelligent robotics* Mark H. Lee, 2013-03-09 An industrial robot routinely carrying out an assembly or welding task is an impressive sight. More important when operated within its design conditions it is a reliable production machine which depending on the manufacturing process being automated is relatively quick to bring into operation and can often repay its capital cost within a year or two. Yet first impressions can be deceptive if the workpieces deviate somewhat in size or position or worse if a gripper slips or a feeder jams the whole system may halt and look very unimpressive indeed. This is mainly because the sum total of the system's knowledge is simply a list of a few variables describing a sequence of positions in space the means of moving from one to the next how to react to a few input signals and how to give a few output commands to associated machines. The acquisition, orderly retention and effective use of knowledge are the crucial missing techniques whose inclusion over the coming years will transform today's industrial robot into a truly robotic system embodying the intelligent connection of perception to action. The use of computers to implement these techniques is the domain of Artificial Intelligence (AI) machine intelligence. Evidently it is an essential ingredient in the future development of robotics yet the relationship between AI practitioners and robotics engineers has been an uneasy one ever since the two disciplines were born.

Smart Robots V. Hunt, 2013-03-07 Here is one of the first really thorough presentations on smart robots. Robots, machine vision systems, sensors, manipulators, expert systems and artificial intelligence concepts combined in state of the art computer integrated manufacturing systems. These smart robots increase productivity and improve the quality of our products. This comprehensive volume which is extensively illustrated provides a unique synthesis and overview of the emerging field of smart robots, the basic approaches for each of the constituent systems, the techniques used, applications, the descriptions of current hardware or software projects, a review of the state of the art of the technology, current research and development efforts and trends in the development of smart robots. All of the information has been compiled from a wide variety of knowledgeable sources and recent government reports. An extensive selection of photo graphs, diagrams and charts amplify this book. The contents of major chapters include: Introduction to smart robots, Artificial intelligence for smart robots, Smart robot systems, Sensor controlled robots, Machine vision systems, Robot manipulators, Natural language processing, Expert systems and Computer integrated manufacturing. *Smart Robots* presents the state of the art in intelligent robots. It is designed to help the reader develop an understanding of industrial applications of smart robots as well as the new technological developments. *Smart Robots* is an outstanding introduction to the integration and application of machine vision systems, sensors, expert systems and artificial intelligence technology.

Intelligent Robotic Systems: Theory, Design and Applications Kimon P. Valavanis, George N. Saridis, 2012-11-05 Since the late 1960s there has been a revolution in robots and industrial automation from the design of robots with no computing or sensory capabilities, first generation to the design of robots with limited computational power and feedback capabilities.

second generation and the design of intelligent robots third generation which possess diverse sensing and decision making capabilities The development of the theory of intelligent machines has been developed in parallel to the advances in robot design This theory is the natural outcome of research and development in classical control 1950s adaptive and learning control 1960s self organizing control 1970s and intelligent control systems 1980s The theory of intelligent machines involves utilization and integration of concepts and ideas from the diverse disciplines of science engineering and mathematics and fields like artificial intelligence system theory and operations research The main focus and motivation is to bridge the gap between diverse disciplines involved and bring under a common cover several generic methodologies pertaining to what has been defined as machine intelligence Intelligent robotic systems are a specific application of intelligent machines They are complex computer controlled robotic systems equipped with a diverse set of visual and non visual sensors and possess decision making and problem solving capabilities within their domain of operation Their modeling and control is accomplished via analytical and heuristic methodologies and techniques pertaining to generalized system theory and artificial intelligence Intelligent Robotic Systems Theory Design and Applications presents and justifies the fundamental concepts and ideas associated with the modeling and analysis of intelligent robotic systems Appropriate for researchers and engineers in the general area of robotics and automation Intelligent Robotic Systems is both a solid reference as well as a text for a graduate level course in intelligent robotics machines Intelligent Robot Feng Duan,Wenyu Li,Ying Tan,2023-02-21 Today the development of robots is making steady advances In particular the Robot Operating System ROS offers a unified platform that greatly facilitates the development of robots and has become a new hotspot for learning and application in the field of robotics research This book introduces readers to the key technologies and development methods for ROS based intelligent robots Covering both the development history of robots and various aspects of programming robots it offers effective support for beginners The book is divided into three parts the first of which introduces the basics of robots including their definition development composition and key technologies In turn the second part covers the hardware and software components and the implementation of functions such as vision speech grasping and autonomous navigation These functions need to work together to provide user friendlier and more intelligent service The third part shows how to develop robots with different functions in different application scenarios Combining theoretical and practical aspects with a strong focus on application this work can be used as a reference book for robotics related courses Moreover it will benefit all readers who are interested in intelligent robot development sharing essential insights into developing service robots based on ROS Advances in Intelligent Robotics and Collaborative Automation Yuriy P. Kondratenko,Richard J. Duro,2015-03-31 This book provides an overview of a series of advanced research lines in robotics as well as of design and development methodologies for intelligent robots and their intelligent components It represents a selection of extended versions of the best papers presented at the Seventh IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing

Systems Technology and Applications IDAACS 2013 that were related to these topics Its contents integrate state of the art computational intelligence based techniques for automatic robot control to novel distributed sensing and data integration methodologies that can be applied to intelligent robotics and automation systems The objective of the text was to provide an overview of some of the problems in the field of robotic systems and intelligent automation and the approaches and techniques that relevant research groups within this area are employing to try to solve them The contributions of the different authors have been grouped into four main sections RobotsControl and IntelligenceSensingCollaborative automation The chapters have been structured to provide an easy to follow introduction to the topics that are addressed including the most relevant references so that anyone interested in this field can get started in the area *Intelligent Robotic Systems* Tzafestas,2020-08-26 A multiplicity of techniques and angles of attack are incorporated in 18 contributions describing recent developments in the structure architecture programming control and implementation of industrial robots capable of performing intelligent action and decision making Annotation copyright Book **Intelligent Robotics and Applications** Xuguang Lan,Xuesong Mei,Caigui Jiang,Fei Zhao,Zhiqiang Tian,2025-01-21 The 10 volume set LNAI 15201 15210 constitutes the proceedings of the 17th International Conference on Intelligent Robotics and Applications ICIRA 2024 which took place in Xi an China during July 31 August 2 2024 The 321 full papers included in these proceedings were carefully reviewed and selected from 489 submissions They were organized in topical sections as follows Part I Innovative Design and Performance Evaluation of Robot Mechanisms Part II Robot Perception and Machine Learning Cognitive Intelligence and Security Control for Multi domain Unmanned Vehicle Systems Part III Emerging Techniques for Intelligent Robots in Unstructured Environment Soft Actuators and Sensors and Advanced Intelligent and Flexible Sensor Technologies for Robotics Part IV Optimization and Intelligent Control of Underactuated Robotic Systems and Technology and application of modular robots Part V Advanced actuation and intelligent control in medical robotics Advancements in Machine Vision for Enhancing Human Robot Interaction and Hybrid Decision making and Control for Intelligent Robots Part VI Advances in Marine Robotics Visual Linguistic Affective Agents Hybrid augmented Agents for Robotics and Wearable Robots for Assistance Augmentation and Rehabilitation of human movements Part VII Integrating World Models for Enhanced Robotic Autonomy Advanced Sensing and Control Technologies for Intelligent Human Robot Interaction and Mini Invasive Robotics for In Situ Manipulation Part VIII Robot Skill Learning and Transfer Human Robot Dynamic System Learning Modelling and Control AI Driven Smart Industrial Systems and Natural Interaction and Coordinated Collaboration of Robots in Dynamic Unstructured Environments Part IX Robotics in Cooperative Manipulation MultiSensor Fusion and Multi Robot Systems Human machine Co adaptive Interface Brain inspired intelligence for robotics Planning control and application of bionic novel concept robots and Robust Perception for Safe Driving Part X AI Robot Technology for Healthcare as a Service Computational Neuroscience and Cognitive Models for Adaptive Human Robot Interactions Dynamics and Perception of Human Robot Hybrid Systems and

Robotics for Rehabilitation Innovations Challenges and Future Directions Intelligent Robotics and Applications YongAn Huang,Hao Wu,Honghai Liu,Zhouping Yin,2017-08-04 The three volume set LNAI 10462 LNAI 10463 and LNAI 10464 constitutes the refereed proceedings of the 10th International Conference on Intelligent Robotics and Applications ICIRA 2017 held in Wuhan China in August 2017 The 235 papers presented in the three volumes were carefully reviewed and selected from 310 submissions The papers in this third volume of the set are organized in topical sections on sensors and actuators mobile robotics and path planning virtual reality and artificial intelligence aerial and space robotics mechatronics and intelligent manufacturing *Intelligent Robotics and Applications* Huayong Yang,Honghai Liu,Jun Zou,Zhouping Yin,Lianqing Liu,Geng Yang,Xiaoping Ouyang,Zhiyong Wang,2023-10-15 The 9 volume set LNAI 14267 14275 constitutes the proceedings of the 16th International Conference on Intelligent Robotics and Applications ICIRA 2023 which took place in Hangzhou China during July 5 7 2023 The 413 papers included in these proceedings were carefully reviewed and selected from 630 submissions They were organized in topical sections as follows Part I Human Centric Technologies for Seamless Human Robot Collaboration Multimodal Collaborative Perception and Fusion Intelligent Robot Perception in Unknown Environments Vision Based Human Robot Interaction and Application Part II Vision Based Human Robot Interaction and Application Reliable AI on Machine Human Reactions Wearable Sensors and Robots Wearable Robots for Assistance Augmentation and Rehabilitation of Human Movements Perception and Manipulation of Dexterous Hand for Humanoid Robot Part III Perception and Manipulation of Dexterous Hand for Humanoid Robot Medical Imaging for Biomedical Robotics Advanced Underwater Robot Technologies Innovative Design and Performance Evaluation of Robot Mechanisms Evaluation of Wearable Robots for Assistance and Rehabilitation 3D Printing Soft Robots Part IV 3D Printing Soft Robots Dielectric Elastomer Actuators for Soft Robotics Human like Locomotion and Manipulation Pattern Recognition and Machine Learning for Smart Robots Part V Pattern Recognition and Machine Learning for Smart Robots Robotic Tactile Sensation Perception and Applications Advanced Sensing and Control Technology for Human Robot Interaction Knowledge Based Robot Decision Making and Manipulation Design and Control of Legged Robots Part VI Design and Control of Legged Robots Robots in Tunnelling and Underground Space Robotic Machining of Complex Components Clinically Oriented Design in Robotic Surgery and Rehabilitation Visual and Visual Tactile Perception for Robotics Part VII Visual and Visual Tactile Perception for Robotics Perception Interaction and Control of Wearable Robots Marine Robotics and Applications Multi Robot Systems for Real World Applications Physical and Neurological Human Robot Interaction Part VIII Physical and Neurological Human Robot Interaction Advanced Motion Control Technologies for Mobile Robots Intelligent Inspection Robotics Robotics in Sustainable Manufacturing for Carbon Neutrality Innovative Design and Performance Evaluation of Robot Mechanisms Part IX Innovative Design and Performance Evaluation of Robot Mechanisms Cutting Edge Research in Robotics *Intelligent Robotics and Applications* Caihua Xiong,2008-09-29 These two volumes constitute the refereed proceedings of the First

International Conference on Intelligent Robotics and Applications ICIRA 2008 held in Wuhan China in October 2008 The 265 revised full papers presented were thoroughly reviewed and selected from 552 submissions they are devoted but not limited to robot motion planning and manipulation robot control cognitive robotics rehabilitation robotics health care and artificial limb robot learning robot vision human machine interaction mobile robotics micro nano mechanical systems manufacturing automation multi axis surface machining realworld applications

Intelligent Robotics and Applications Ming Xie, Youlun Xiong, Caihua Xiong, Zhencheng Hu, 2009-12-14 The market demands for skills knowledge and personalities have positioned robotics as an important field in both engineering and science To meet these challenging demands robotics has already seen its success in automating many industrial tasks in factories And a new era will come for us to see a greater success of robotics in industrial environments In anticipating a wider deployment of intelligent and autonomous robots for tasks such as manufacturing eldercare homecare edutainment search and rescue de mining surveillance exploration and security missions it is necessary for us to push the frontier of robotics into a new dimension in which motion and intelligence play equally important roles After the success of the inaugural conference the purpose of the Second International Conference on Intelligent Robotics and Applications was to provide a venue where researchers scientists engineers and practitioners throughout the world could come together to present and discuss the latest achievement future challenges and exciting applications of intelligent and autonomous robots In particular the emphasis of this year's conference was on robot intelligence for achieving digital manufacturing and intelligent automations This volume of Springer's Lecture Notes in Artificial Intelligence and Lecture Notes in Computer Science contains accepted papers presented at ICIRA 2009 held in Singapore December 16-18 2009 On the basis of the reviews and recommendations by the international Program Committee members we decided to accept 128 papers having technical novelty out of 173 submissions received from different parts of the world

Intelligent Robotics and Applications Xin-Jun Liu, Zhenguo Nie, Jingjun Yu, Fugui Xie, Rui Song, 2021-10-19 The 4 volume set LNAI 13013-13016 constitutes the proceedings of the 14th International Conference on Intelligent Robotics and Applications ICIRA 2021 which took place in Yantai China during October 22-25 2021 The 299 papers included in these proceedings were carefully reviewed and selected from 386 submissions They were organized in topical sections as follows Robotics dexterous manipulation sensors actuators and controllers for soft and hybrid robots cable driven parallel robot human centered wearable robotics hybrid system modeling and human machine interface robot manipulation skills learning micro_nano materials devices and systems for biomedical applications actuating sensing control and instrumentation for ultra precision engineering human robot collaboration robotic machining medical robot machine intelligence for human motion analytics human robot interaction for service robots novel mechanisms robots and applications space robot and on orbit service neural learning enhanced motion planning and control for human robot interaction medical engineering

Intelligent Robotics and Applications Honghai Liu, Han Ding, Zhenhua Xiong, Xiangyang Zhu, 2010-10-27 The market

demand for skills knowledge and adaptability have positioned robotics to be an important field in both engineering and science One of the most highly visible applications of robotics has been the robotic automation of many industrial tasks in factories In the future a new era will come in which we will see a greater success for robotics in non industrial environments In order to anticipate a wider deployment of intelligent and autonomous robots for tasks such as manufacturing healthcare entertainment search and rescue surveillance exploration and security missions it is essential to push the frontier of robotics into a new dimension one in which motion and intelligence play equally important roles The 2010 International Conference on Intelligent Robotics and Applications ICIRA 2010 was held in Shanghai China November 10 12 2010 The theme of the conference was Robotics Harmonizing Life a theme that reflects the ever growing interest in research development and applications in the dynamic and exciting areas of intelligent robotics These volumes of Springer's Lecture Notes in Artificial Intelligence and Lecture Notes in Computer Science contain 140 high quality papers which were selected at least for the papers in general sessions with a 62% acceptance rate Traditionally ICIRA 2010 holds a series of plenary talks and we were fortunate to have two such keynote speakers who shared their expertise with us in diverse topic areas spanning the range of intelligent robotics and application activities

Intelligent Robots and Cobots V. Ramasamy, S. Balamurugan, Sheng-Lung Peng, 2025-01-22 The book provides a comprehensive study of how new technological advances utilize robots and Cobots collaborative robots that work safely alongside humans to increase manufacturing efficiency Industry 5.0 focuses on using collaborative robots or cobots enabling users to design with greater freedom This book structured into 18 chapters and three sections Fundamentals Applications and Challenges reflect the current and emerging market trends that shape industrial growth Each chapter explores how businesses incorporating hardware and software like AI cognitive computing blockchain IIoT and more are capitalizing on these innovations to maintain a competitive edge The research and development in the areas of technology has increased the cost effectiveness and acceptance of these IoT enabled devices in many different industries Various sectors including manufacturing healthcare transportation and agriculture sectors have begun incorporating robots and cobots into their operations They are aiming to increase their productivity reduce the downtime of their equipment and optimize resource utilization The individual chapters examine the following subjects Investigation on Deployment of Microservices for Swarm Intelligence of Collaborative Robots Cobot Aided System for Hydroponically Grown Plants Low No Code Software Development of Cobots Using Advanced Graphical User Interface Role of Cobots Over Industrial Robots in Industry 5.0 Activities Cobot Collaboration in the Healthcare Industry Robotic Arm for Industry Automation Artificial Intelligence Driven Cobots for Innovative Industry 5.0 Workforce Comprehensive Analysis on Design Working and Manufacturing of Soft Robots Workforce for Industry 5.0 The Work of Future and the Future of Work Security Issues and Trends of Industrial Robots and Cobots Aviation Bots for Decongesting Airports Self Contained Study and Evolution of Cobots in Intelligent Transportation Systems Smart Architecture for Data Analytics in Collaborative Robots

Contribution of Blockchain Technology for the Cobot's Cybersecurity Issues Security Issues and Trends of Industrial Robots and Cobots Cloud Based Cobots for Industry 5.0 A Human Centric Solution Future Workforce for Industry 5.0 Audience The book's primary audience is researchers and post graduate students in robotics and cobots industrial engineers production and manufacturing engineers working on artificial intelligence and logistics

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

Intelligent Robotic Planning Systems Phillip C.-Y. Sheu, Qing Xue, 1993 Discusses generic planning problems with robotics specific considerations Includes the recent results in reconfigurable robot planning multiple robot planning plan recovery and planning in uncertain environments

Smart Robots V. Daniel Hunt, 1985

Design and Control of Intelligent Robotic Systems Dikai Liu, Lingfeng Wang, Kay Chen Tan, 2009-03-05 With the increasing applications of intelligent robotic systems in various fields the design and control of these systems have increasingly attracted interest from researchers This edited book entitled Design and Control of Intelligent Robotic Systems in the book series of Studies in Computational Intelligence is a collection of some advanced research on design and control of intelligent robots The works presented range in scope from design methodologies to robot development Various design approaches and algorithms such as evolutionary computation neural networks fuzzy logic learning etc are included We also would like to mention that most studies reported

in this book have been implemented in physical systems An overview on the applications of computational intelligence in bio inspired robotics is given in Chapter 1 by M Begum and F Karray with highlights of the recent progress in bio inspired robotics research and a focus on the usage of computational intelligence tools to design human like cognitive abilities in the robotic systems In Chapter 2 Lisa L Grant and Ganesh K Venayagamoorthy present greedy search particle swarm optimization and fuzzy logic based strategies for navigating a swarm of robots for target search in a hazardous environment with potential applications in high risk tasks such as disaster recovery and hazardous material detection

Advances in Intelligent Robotics and Collaborative Automation Richard Duro, Yuriy Kondratenko, 2022-09-01 This book provides an overview of a series of advanced research lines in robotics as well as of design and development methodologies for intelligent robots and their intelligent components It represents a selection of extended versions of the best papers presented at the Seventh IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems Technology and Applications IDAACS 2013 that were related to these topics Its contents integrate state of the art computational intelligence based techniques for automatic robot control to novel distributed sensing and data integration methodologies that can be applied to intelligent robotics and automation systems The objective of the text was to provide an overview of some of the problems in the field of robotic systems and intelligent automation and the approaches and techniques that relevant research groups within this area are employing to try to solve them The contributions of the different authors have been grouped into four main sections Robots Control and Intelligence Sensing Collaborative automation The chapters have been structured to provide an easy to follow introduction to the topics that are addressed including the most relevant references so that anyone interested in this field can get started in the area

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