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### **Modeling and Control of a Tracked Mobile Robot for Pipeline Inspection** Michał Ciszewski, Mariusz

Giergiel, Tomasz Buratowski, Piotr Małka, 2020-03-18 This book describes the design mathematical modeling control system development and experimental validation of a versatile mobile pipe inspection robot It also discusses a versatile robotic system for pipeline inspection together with an original adaptable tracked mobile robot featuring a patented motion unit Pipeline inspection is a common field of application for mobile robots because the monitoring of inaccessible long and narrow pipelines is a very difficult task for humans The main design objective is to minimize the number of robots needed to inspect different types of horizontal and vertical pipelines with both smooth and rough surfaces The book includes extensive information on the various design phases mathematical modeling simulations and control system development In closing the prototype construction process and testing procedures are presented and supplemented with laboratory and field experiments

**Robot Control and Calibration** Xin Luo, Zhibin Li, Long Jin, Shuai Li, 2023-09-25 This book mainly shows readers how to calibrate and control robots In this regard it proposes three control schemes an error summation enhanced Newton algorithm for model predictive control RNN for solving perturbed time varying underdetermined linear systems and a new joint drift free scheme aided with projected ZNN which can effectively improve robot control accuracy Moreover the book develops four advanced algorithms for robot calibration Levenberg Marquardt with diversified regularizations improved covariance matrix adaptive evolution strategy quadratic interpolated beetle antennae search algorithm and a novel variable step size Levenberg Marquardt algorithm which can effectively enhance robot positioning accuracy In addition it is exceedingly difficult for experts in other fields to conduct robot arm calibration studies without calibration data Thus this book provides a publicly available dataset to assist researchers from other fields in conducting calibration experiments and validating their ideas The book also discusses six regularization schemes based on its robot error models i e L1 L2 dropout elastic log and swish Robots positioning accuracy is significantly improved after calibration Using the control and calibration methods developed here readers will be ready to conduct their own research and experiments Machine Learning

Techniques for Smart City Applications: Trends and Solutions D. Jude Hemanth, 2022-09-19 This book discusses the application of different machine learning techniques to the sub concepts of smart cities such as smart energy transportation waste management health infrastructure etc The focus of this book is to come up with innovative solutions in the above mentioned issues with the purpose of alleviating the pressing needs of human society This book includes content with practical examples which are easy to understand for readers It also covers a multi disciplinary field and consequently it benefits a wide readership including academics researchers and practitioners **Interactive Collaborative Robotics**

Andrey Ronzhin, Gerhard Rigoll, Roman Meshcheryakov, 2016-08-15 This book constitutes the proceedings of the First International Conference on Interactive Collaborative Robotics ICR 2016 held in Budapest Hungary in August 2016 The 29

papers presented in this volume were carefully reviewed and selected from 48 submissions      *Robotics, Vision and Control* Peter Corke, 2023-05-09 This textbook provides a comprehensive but tutorial introduction to robotics computer vision and control It is written in a light but informative conversational style weaving text figures mathematics and lines of code into a narrative that covers robotics and computer vision separately and together as robotic vision Over 1600 code examples show how complex problems can be decomposed and solved using just a few simple lines of code This edition is based on Python and is accompanied by fully open source Python based Toolboxes for robotics and machine vision The new Toolboxes enable the reader to easily bring the algorithmic concepts into practice and work with real non trivial problems on a broad range of computing platforms For the beginning student the book makes the algorithms accessible the Toolbox code can be read to gain understanding and the examples illustrate how it can be used The code can also be the starting point for new work for practitioners students or researchers by writing programs based on Toolbox functions or modifying the Toolbox code itself

*Membrane Computing for Distributed Control of Robotic Swarms: Emerging Research and Opportunities* Florea, Andrei George, Buiu, Cătălin, 2017-03-10 Developments in bio inspired computation have impacted multiple fields and created opportunities for new applications In recent years these techniques have been increasingly integrated into robotic systems *Membrane Computing for Distributed Control of Robotic Swarms Emerging Research and Opportunities* is an innovative reference source for the latest perspectives on biologically inspired computation techniques for robot design and control Highlighting a range of pivotal topics such as software engineering simulation tools and robotic security this book is ideally designed for researchers academics students and practitioners interested in the role of membrane computing in mobile robots      **New Perspectives on Nonlinear Dynamics and Complexity** Dimitri Volchenkov, Albert C. J. Luo, 2022-07-29

This book presents select recent developments in nonlinear and complex systems reported at the 1st Online Conference on Nonlinear Dynamics and Complexity held on November 23 25 2020 It provides an exchange recent developments discoveries and progresses in Nonlinear Dynamics and Complexity The collection presents fundamental and frontier theories and techniques for modern science and technology stimulates more research interest for exploration of nonlinear science and complexity and passes along new knowledge and insight to the next generation of engineers and technologists in a range of fields      **Robotic Vision** Peter Corke, 2021-10-15 This textbook offers a tutorial introduction to robotics and Computer

Vision which is light and easy to absorb The practice of robotic vision involves the application of computational algorithms to data Over the fairly recent history of the fields of robotics and computer vision a very large body of algorithms has been developed However this body of knowledge is something of a barrier for anybody entering the field or even looking to see if they want to enter the field What is the right algorithm for a particular problem and importantly How can I try it out without spending days coding and debugging it from the original research papers The author has maintained two open source MATLAB Toolboxes for more than 10 years one for robotics and one for vision The key strength of the Toolboxes provide a

set of tools that allow the user to work with real problems not trivial examples For the student the book makes the algorithms accessible the Toolbox code can be read to gain understanding and the examples illustrate how it can be used instant gratification in just a couple of lines of MATLAB code The code can also be the starting point for new work for researchers or students by writing programs based on Toolbox functions or modifying the Toolbox code itself The purpose of this book is to expand on the tutorial material provided with the toolboxes add many more examples and to weave this into a narrative that covers robotics and computer vision separately and together The author shows how complex problems can be decomposed and solved using just a few simple lines of code and hopefully to inspire up and coming researchers The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision It is written in a light but informative style it is easy to read and absorb and includes a lot of Matlab examples and figures The book is a real walk through the fundamentals light and color camera modelling image processing feature extraction and multi view geometry and bring it all together in a visual servo system An authoritative book reaching across fields thoughtfully conceived and brilliantly accomplished Oussama Khatib Stanford *Reliable Non-Parametric Techniques for Energy System Operation and Control* Hongcai Zhang,Yonghua Song,Ge Chen,Peipei Yu,2025-07-01 Reliable Non Parametric Techniques for Energy System Operation and Control Fundamentals and Applications of Constraint Learning and Safe Reinforcement Learning Methods a new Volume in the Advances in Intelligent Energy Systems is a comprehensive guide to modern smart methods in energy system operation and control This book covers fundamental concepts and applications in both deterministic and uncertain environments It addresses the challenge of accuracy in imbalanced datasets and the limitations of measurements The book delves into advanced topics such as safe reinforcement learning for energy system control including training efficient intrinsic motivated reinforcement learning and physical layer based control and more Other chapters cover barrier function based control and CVaR based control for systems without hard operation constraints Designed for graduate students researchers and engineers this book stands out for its practical approach to advanced methods in energy system control enabling sustainable developments in real world conditions Bridges the gap between theory and practice providing essential insights for graduate students researchers and engineers Includes visual elements data and code and case studies for easy understanding and implementation Provides the latest release in the Advances in Intelligent Energy Systems series bringing together the latest innovations in smart sustainable energy Popular Science ,2004-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Robot Dynamics and Control** Spong,1989-05-24 First European Biomedical Engineering Conference for Young Investigators Ákos Jobbágy,2015-05-28 This volume presents the proceedings of the first European Biomedical Engineering Conference for Young Investigators ENCY2015 It was in Budapest from 28th to 30th May

2015 The papers were assembled under the motto Understanding complex living systems and cover the topics sensors image processing bioinformatics biomechanics and modeling Convergence of AI, Federated Learning, and Blockchain for Sustainable Development Mohit Kumar, Anand Nayyar, Ashutosh Kumar Singh, Yanhui Guo, 2025-09-09 This book provides current state of the art along with an insight of recent research trends and open issues challenges and future research direction for the academicians, analyzer, researcher, writers and authors. It also provides an opportunity to exchange knowledge in the field of IoT enabled smart systems, Industry 4.0, networking, cyber physical system, computing paradigms and security with various tools and methods used for industry oriented intelligent based IoT applications. This advanced research edited book focuses on emerging and advancing technology, federated machine learning, blockchain and artificial intelligence for real time Internet of things IoT application to solve the real world problems and make the life of human more conformable. The objective of the proposed book is to develop privacy preserving model for IoT applications and improve the security, privacy, reliability and sustainability of the systems. This book motivates and enhances the quality of research and commercialization in the fields of AI, Industry 4.0, federated learning and blockchain. **Edge Intelligence in the Making** Sen Lin, Zhi Zhou, Zhaofeng Zhang, Xu Chen, Junshan Zhang, 2025-06-11 This book conducts a comprehensive and detailed survey of the recent research efforts in edge intelligence. The authors first review the background and present motivation for AI running at the network edge. The book then provides an overview of the overarching architectures, frameworks and emerging key technologies for deep learning models toward training/inference at the network edge. To illustrate the research problems for edge intelligence, the book also showcases four of the authors' own research projects on edge intelligence ranging from rigorous theoretical analysis to studies based on realistic implementation. This second edition incorporates the latest research in this rapidly developing area. The authors also highlight the current applications and future research opportunities for edge intelligence. **Modelling and Simulations for Tourism and Hospitality** Jacopo A. Baggio, Rodolfo Baggio, 2020-01-17 This book aims to shed light on the use of various modelling tools and simulation techniques in the domains of tourism and hospitality. It offers an essential introduction to the most popular methods used for modelling and simulating systems and phenomena of interest and an overview of these techniques and methods. The main concept of each technique and method is examined and case studies and links to free online tutorials and other helpful resources are provided. The volume aims to encourage students, researchers and practitioners in tourism and hospitality to enhance and enrich their toolbox in order to achieve a better and more profound knowledge of their field. *Advanced Digital Technologies in Digitalized Smart Grid* Xiangjun Zeng, Yan Xu, Dongqi Liu, 2022-11-08 **A Biologist's Guide to Artificial Intelligence** Ambreen Hamadani, Nazir A. Ganai, Hamadani Henna, J. Bashir, 2024-02-29 A Biologist's Guide to Artificial Intelligence: Building the Foundations of Artificial Intelligence and Machine Learning for Achieving Advancements in Life Sciences provides an overview of the basics of Artificial Intelligence for life science biologists. In 14 chapters/sections, readers

will find an introduction to Artificial Intelligence from a biologist's perspective including coverage of AI in precision medicine disease detection and drug development The book also gives insights into the AI techniques used in biology and the applications of AI in food and in environmental evolutionary agricultural and bioinformatic sciences Final chapters cover ethical issues surrounding AI and the impact of AI on the future This book covers an interdisciplinary area and is therefore an important subject matter resource and reference for researchers in biology and students pursuing their degrees in all areas of Life Sciences It is also a useful title for the industry sector and computer scientists who would gain a better understanding of the needs and requirements of biological sciences and thus better tune the algorithms Helps biologists succeed in understanding the concepts of Artificial Intelligence and machine learning Equips with new data mining strategies an easy interface into the world of Artificial Intelligence Enables researchers to enhance their own sphere of researching Artificial Intelligence

Stein's Research in Occupational Therapy, 7th Edition Martin S. Rice, George Tomlin, Franklin Stein, 2024-12-09 The seventh edition of this best selling text continues to provide occupational therapy students and researchers with expert guidance on conducting research from the formulation of a research hypothesis to collecting analyzing and interpreting data Now updated in line with the latest ACOTE Standards the new edition has been thoroughly revised Of note is a new chapter on the capstone project and the integration of the hierarchical Research Pyramid to enhance the book's usability for researchers instructors and students It also features a new chapter focused on using research literature to inform clinical reasoning highlighting the benefits of scoping reviews systemic reviews meta analyses and meta synthesis as well as updated tests and evaluations which can be used as outcome instruments There are also further contemporary examples of both quantitative and qualitative research additions to the glossary of terms and statistics and updated references throughout Offering insightful guidance on conducting research from start to finish this invaluable resource will be essential reading for any occupational therapy student or researcher

Industry 4.0 in Small and Medium-Sized Enterprises (SMEs) Ketan Kotecha, Satish Kumar, Arunkumar Bongale, R. Suresh, 2022-03-27 Focusing on the broader areas of Industry 4.0 as it applies to small and medium sized enterprises SMEs this book offers a smooth adoption of techniques and technologies and presents advances challenges and opportunities for implementation It will also enhance the role of academia by training new engineers on Industry 4.0 and digital transformation Industry 4.0 in Small and Medium Sized Enterprises SMEs Opportunities Challenges and Solutions presents concepts of predictive maintenance digital factory digital twin additive manufacturing and machining for sustainable development It discusses the challenges faced by adopting Industry 4.0 including new security and privacy measures in the whole smart manufacturing setup while also explaining the impact of Industry 4.0 on Lean production systems Implementation recommendations in the form of case studies research studies and the role academia can play are also provided Practitioners research scholars academicians and those studying or working in the Industry 4.0 sector will find this book of interest

Multifaceted approaches for Data Acquisition, Processing

& Communication Chinmay Chakraborty, Manisha Guduri, B Sandhya, K Shyamala, 2024-06-24 The objective of the conference is to bring to focus the recent technological advancements across all the stages of data analysis including acquisition processing and communication Advancements in acquisition sensors along with improved storage and computational capabilities have stimulated the progress in theoretical studies and state of the art real time applications involving large volumes of data This compels researchers to investigate the new challenges encountered where traditional approaches are incapable of dealing with large complicated new forms of data



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