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Robot Dynamics and Control Spong, 1989-05-24

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

On-Line Trajectory Generation in Robotic Systems Torsten

Kröger, 2010-01-10 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 old 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 health care 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 providing 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

Trends in Intelligent Robotics, Automation, and

Manufacturing S.G. Poonambalam, Jussi Parkkinen, Kuppan Chetty Ramanathan, 2012-11-28 This book constitutes the proceedings of the First International Conference on Intelligent Robotics and Manufacturing IRAM 2012 held in Kuala Lumpur Malaysia in November 2012 The 64 revised full papers included in this volume were carefully reviewed and selected from 102 initial submissions The papers are organized in topical sections named mobile robots intelligent autonomous systems robot vision and robust autonomous agents micro meso and nano scale automation and assembly flexible manufacturing systems CIM and micro machining and fabrication techniques

Robotics, Vision and Control Peter

Corke,2011-11-03 The practice of robotics and computer vision both involve 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 of robot kinematics dynamics and joint level control then camera models image processing feature extraction and epipolar geometry and bring it all together in a visual servo system Additional material is provided at <http://www.petercorke.com> RVC

Robot Modeling and Control Mark W. Spong, Seth Hutchinson, M. Vidyasagar, 2020-03-30 A New Edition Featuring Case Studies and Examples of the Fundamentals of Robot Kinematics Dynamics and Control In the 2nd Edition of *Robot Modeling and Control* students will cover the theoretical fundamentals and the latest technological advances in robot kinematics With so much advancement in technology from robotics to motion planning society can implement more powerful and dynamic algorithms than ever before This in depth reference guide educates readers in four distinct parts the first two serve as a guide to the fundamentals of robotics and motion control while the last two dive more in depth into control theory and nonlinear system analysis With the new edition readers gain access to new case studies and thoroughly researched information covering topics such as Motion planning collision avoidance trajectory optimization and control of robots Popular topics within the robotics industry and how they apply to various technologies An expanded set of examples simulations problems and case studies Open ended suggestions for students to apply the knowledge to real life situations A four part reference essential for both undergraduate and graduate students *Robot Modeling and Control* serves as a foundation for a solid education in robotics and motion planning

Instructor's Solutions Manual to Accompany A Robot Engineering Textbook Mohsen Shahinpoor, 1987 **Solutions Manual, Fundamentals of Robot Mechanics**

Gregory Long,2015-08-01 A solutions manual for Fundamentals of Robot Mechanics by Gregory L Long Solutions Manual to Accompany Introduction to Robotics John J. Craig,1986 Solutions manual to accompany simulation modeling and analysis Averill M. Law,W. David Kelton,1981 **Robot Modeling and Kinematics** Rachid Manseur,2007 **The Art of Modeling in Science and Engineering Solutions Manual** Diran Basmadjian,Steven Strauss,2004-11-11 **Solutions Manual for Mathematical Modeling I and II** Troy Story,2012-11-15 Solutions Manual the Standard Model and Beyond Taylor & Francis Group,2009-08-07 Mathematical Modeling - Solutions Manual Taylor & Francis Group,2012-04-15 Solutions Manual to Accompany Principles of Mathematical Modeling Clive L. Dym,Elizabeth A. Ivey,Elizabeth S. Ivey,1979 **Solutions Manual to Accompany Simulation Modelling & Analysis** W. David Kelton,1991

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