

Railway Robots

Cristian Mahulea,Marius Kloetzer,Ramon Gonzalez

Robot Systems for Rail Transit Applications Hui Liu,2020-06-27 Robot Systems for Rail Transit Applications presents the latest advances in robotics and artificial intelligence for railway systems, giving foundational principles and running through special problems in robot systems for rail transit. State-of-the art research in robotics and railway systems is presented alongside a series of real-world examples. Eight chapters give definitions and characteristics of rail transit robot systems, describe assembly and collaborative robots in manufacturing, introduce automated guided vehicles and autonomous rail rapid transit, demonstrate inspection robots, cover trench robots, and explain unmanned aerial vehicles. This book offers an integrated and highly-practical way to approach robotics and artificial intelligence in rail-transit. Introduces robot and artificial intelligence (AI) systems for rail transit applications Presents research alongside step-by-step coverage of real-world cases Gives the theoretical foundations underlying practical application Offers solutions for high-speed railways from the latest work in robotics Shows how robotics and AI systems afford new and efficient methods in rail transit

Building Robot Drive Trains Dennis Clark,Michael Owings,2003 Publisher Description

Thomas and the Robot (Thomas & Friends) Golden Books,2021-07-13 Thomas the Tank Engine meets a robot in this exciting new Thomas & Friends(TM) Little Golden Book! When a technology fair comes to the Island of Sodor, Thomas the Tank Engine is worried that robots and faster trains will replace him. But when thieves try to steal plans for a flying car, Thomas saves the day and proves that steam engines are really useful! Train-loving boys and girls ages 2-5--and Little Golden Book collectors of all ages--will love this exciting new Thomas & Friends(TM) Little Golden Book. In the early 1940s, a loving father crafted a small blue wooden train engine for his son, Christopher. The stories that this father, the Reverend W Awdry, made up to accompany the wonderful toy were first published in 1945 and became the basis for the Railway Series, a collection of books about Thomas the Tank Engine and his friends--and the rest is history. Thomas & Friends(TM) are now a big extended family of engines and others on the Island of Sodor. They appear not only in books but also in television shows and movies, and as a wide variety of beautifully made toys. The adventures of Thomas and his friends, which are always, ultimately, about friendship, have delighted generations of train-loving boys and girls for more than 70 years and will continue to do so for generations to come.

Robots Everywhere!: Unpeeled By Russ And Yammy With Kelly Ang Kelly Su-fern Ang,2023-02-24 Robots are taking over our world!Really? Think again! Robots come in many different forms — from industrial arms to appliances on wheels — and although they are everywhere, they're here to help us, not conquer us. Peel back the covers of this book to join Russ and Yammy, our fun-loving potato duo, as they find out more about robots. Through comics, corny jokes and an exclusive interview with a robot specialist, you'll be amazed and inspired by the world of robots, everywhere around you!Science, technology, engineering and math (commonly known as STEM) are everywhere around us — look carefully and you'll see many examples. Science Everywhere! is a fun series of books focusing on STEM concepts, and these books come with a huge dollop of corny humour! Each book will enthrall young readers with the laugh-out-loud antics of Yammy and Russ, who promise a mashing good time as they dig into the world of science.

Closing the Robotics Market Gap through the Robotics for Inspection and Maintenance Network Christophe Leroux,2023-10-16 This book offers a clear guide on achieving success within an EU-funded project, and highlights the tools required to close the gap between robotics innovation and the markets of inspection and maintenance. The book includes project management perspectives, network building, a catalogue of Digital Innovation Hubs, services and technologies offered to the innovation initiatives, sustainability plans, cybersecurity schemes and an extensive market analysis that could support any endeavor in the field. It also highlights a wide range of features supported by the 50 robotics innovations and

describes the Cascade funding mechanism in detail. This book will be of interest to those wishing to learn the basics of the Robotics for Inspection and Maintenance (RIMA) Network, technology innovators, researchers, and those involved in start-ups, scaleups, and small and medium-sized enterprises (SMEs).

Digital Safety in Railway Transport—Aspects of Management and Technology Adam Jabłoński, Marek Jabłoński, 2022-03-15 This book introduces modern safety management in rail transport, focusing on the challenges resulting from the digital economy. It details how the cybersecurity of railway technical systems and risk can be managed. The rail transport sector is increasingly integrated into the digital economy. Ensuring the safety of technical systems and managing the rail system as a whole are key challenges for rail transport designers, managers, users and other stakeholders. Developing of rail transport based on the interoperability of different systems requires both searching for modern solutions and ensuring a high level of standardization of processes. In the context of the widespread digitalization of railway systems, new hazards arise that can lead to undesirable events. This book examines these issues. The book will be of interest to rail professionals, and researchers into transport systems and reliability.

Robot System Reliability and Safety B.S. Dhillon, 2015-04-22 As robots are used more and more to perform a variety of tasks in a range of fields, it is imperative to make the robots as reliable and safe as possible. Yet no book currently covers robot reliability and safety within one framework. *Robot System Reliability and Safety: A Modern Approach* presents up-to-date information on robot reliability, safety

Industrial Automation and Robotics A. K. Gupta, Gupta, 2007

Mobile Robot Automation in Warehouses Alp Yildirim, Hendrik Reefke, Emel Aktas, 2023-01-03 This book illustrates the applications of mobile robot systems in warehouse operations with an integrated decision framework for their selection and application. Mobile robot systems are an automation solution in warehouses that make order fulfillment agile, flexible and scalable to cope with the increasing volume and complexity of customer orders. Compared with manual operations, they combine higher productivity and throughput with lower operating costs. As the practical use of mobile robot systems is increasing, decision-makers are confronted with a plethora of decisions. Still, research is lagging in providing the needed academic insights and managerial guidance. The lack of a structured decision framework tailored for mobile robot system applications in warehouses increases the probability of problems when choosing automation systems. This book demonstrates the characteristics of mobile robot systems which reinforce warehouse managers in identifying, evaluating and choosing candidate systems through multiple criteria. Furthermore, the managerial decision framework covering decisions at strategic, tactical and operational levels in detail helps decision-makers to implement a mobile robot solution step-by-step. This book puts special emphasis on change management and operational control of mobile robots using path planning and task allocation algorithms. The book also introduces focus areas that require particular attention to aid the efficiency and practical application of these systems, such as facility layout planning, robot fleet sizing, and human-robot interaction. It will be essential reading for academics and students working on digital warehousing and logistics, as well as practitioners in warehouses looking to make informed decisions.

Social Robotics Filippo Cavallo, John-John Cabibihan, Laura Fiorini, Alessandra Sorrentino, Hongsheng He, Xiaorui Liu, Yoshio Matsumoto, Shuzhi Sam Ge, 2023-02-01 The two-volume set LNAI 13817 and 13818 constitutes the refereed proceedings of the 14th International Conference on Social Robotics, ICSR 2022, which took place in Florence, Italy, in December 2022. The 111 papers presented in the proceedings set were carefully reviewed and selected from 143 submissions. The contributions were organized in topical sections as follows: Social robot navigation and interaction capabilities (voice, tactile); Social robot perception and control capabilities; Investigating non verbal interaction with Social robots; Foster attention and engagement strategies in social robots; Special Session 1: Social Robotics Driven by Intelligent Perception and Endogenous Emotion-Motivation Core; Special Session 2: Adaptive behavioral models of robotic systems based on brain-inspired AI cognitive architectures; Advanced HRI capabilities for

interacting with children; Social robots as advanced educational tool; Social robot applications in clinical and assistive scenarios; Collaborative social robots through dynamic game; Design and evaluate user's robot perception and acceptance; Ethics, gender & trust in social robotics.

Human-Robot Interaction in Social Robotics Takayuki Kanda, Hiroshi Ishiguro, 2017-12-19 Human-Robot Interaction in Social Robotics explores important issues in designing a robot system that works with people in everyday environments. Edited by leading figures in the field of social robotics, it draws on contributions by researchers working on the Robovie project at the ATR Intelligent Robotics and Communication Laboratories, a world leader in humanoid interactive robotics. The book brings together, in one volume, technical and empirical research that was previously scattered throughout the literature. Taking a networked robot approach, the book examines how robots work in cooperation with ubiquitous sensors and people over telecommunication networks. It considers the use of social robots in daily life, grounding the work in field studies conducted at a school, train station, shopping mall, and science museum. Critical in the development of network robots, these usability studies allow researchers to discover real issues that need to be solved and to understand what kinds of services are possible. The book tackles key areas where development is needed, namely, in sensor networks for tracking humans and robots, humanoids that can work in everyday environments, and functions for interacting with people. It introduces a sensor network developed by the authors and discusses innovations in the Robovie humanoid, including several interactive behaviors and design policies. Exploring how humans interact with robots in daily life settings, this book offers valuable insight into how robots may be used in the future. The combination of engineering, empirical, and field studies provides readers with rich information to guide in developing practical interactive robots.

Mobile Robots Zoran Gacovski, 2011-10-26 This book consists of 18 chapters divided in four sections: Robots for Educational Purposes, Health-Care and Medical Robots, Hardware - State of the Art, and Localization and Navigation. In the first section, there are four chapters covering autonomous mobile robot Emmy III, KCLBOT - mobile nonholonomic robot, and general overview of educational mobile robots. In the second section, the following themes are covered: walking support robots, control system for wheelchairs, leg-wheel mechanism as a mobile platform, micro mobile robot for abdominal use, and the influence of the robot size in the psychological treatment. In the third section, there are chapters about I2C bus system, vertical displacement service robots, quadruped robots - kinematics and dynamics model and Epi.q (hybrid) robots. Finally, in the last section, the following topics are covered: skid-steered vehicles, robotic exploration (new place recognition), omnidirectional mobile robots, ball-wheel mobile robots, and planetary wheeled mobile robots.

Humanoid Robots Armando Carlos De Pina Filho, 2007-06-01 For many years, the human being has been trying, in all ways, to recreate the complex mechanisms that form the human body. Such task is extremely complicated and the results are not totally satisfactory. However, with increasing technological advances based on theoretical and experimental researches, man gets, in a way, to copy or to imitate some systems of the human body. These researches not only intended to create humanoid robots, great part of them constituting autonomous systems, but also, in some way, to offer a higher knowledge of the systems that form the human body, objectifying possible applications in the technology of rehabilitation of human beings, gathering in a whole studies related not only to Robotics, but also to Biomechanics, Biomimetics, Cybernetics, among other areas. This book presents a series of researches inspired by this ideal, carried through by various researchers worldwide, looking for to analyze and to discuss diverse subjects related to humanoid robots. The presented contributions explore aspects about robotic hands, learning, language, vision and locomotion.

Construction Robots Thomas Bock, Thomas Linner, 2016-10-24 Combining architectural theory with the latest trends in manufacturing technology, this volume shows how Single-Task Construction Robots (STCRs) can improve productivity in the construction industry. It presents two hundred types of

STCRs and includes numerous real-world case studies, making it an excellent resource for professional engineers and researchers.

Intelligent Robotics and Applications Honghai Liu,Zhouping Yin,Lianqing Liu,Li Jiang,Guoying Gu,Xinyu Wu,Weihong Ren,2022-08-03 The 4-volume set LNAI 13455 - 13458 constitutes the proceedings of the 15th International Conference on Intelligent Robotics and Applications, ICIRA 2022, which took place in Harbin China, during August 2022. The 284 papers included in these proceedings were carefully reviewed and selected from 442 submissions. They were organized in topical sections as follows: Robotics, Mechatronics, Applications, Robotic Machining, Medical Engineering, Soft and Hybrid Robots, Human-robot Collaboration, Machine Intelligence, and Human Robot Interaction.

Railway Age ,1988

Path Planning of Cooperative Mobile Robots Using Discrete Event Models Cristian Mahulea,Marius Kloetzer,Ramon Gonzalez,2020-01-09 Offers an integrated presentation for path planning and motion control of cooperative mobile robots using discrete-event system principles Generating feasible paths or routes between a given starting position and a goal or target position—while avoiding obstacles—is a common issue for all mobile robots. This book formulates the problem of path planning of cooperative mobile robots by using the paradigm of discrete-event systems. It presents everything readers need to know about discrete event system models—mainly Finite State Automata (FSA) and Petri Nets (PN)—and methods for centralized path planning and control of teams of identical mobile robots. Path Planning of Cooperative Mobile Robots Using Discrete Event Models begins with a brief definition of the Path Planning and Motion Control problems and their state of the art. It then presents different types of discrete models such as FSA and PNs. The RMTTool MATLAB toolbox is described thereafter, for readers who will need it to provide numerical experiments in the last section. The book also discusses cell decomposition approaches and shows how the divided environment can be translated into an FSA by assigning to each cell a discrete state, while the adjacent relation together with the robot's dynamics implies the discrete transitions. Highlighting the benefits of Boolean Logic, Linear Temporal Logic, cell decomposition, Finite State Automata modeling, and Petri Nets, this book also: Synthesizes automatic strategies based on Discrete Event Systems (DES) for path planning and motion control and offers software implementations for the involved algorithms Provides a tutorial for motion planning introductory courses or related simulation-based projects using a MATLAB package called RMTTool (Robot Motion Toolbox) Includes simulations for problems solved by methodologies presented in the book Path Planning of Cooperative Mobile Robots Using Discrete Event Models is an ideal book for undergraduate and graduate students and college and university professors in the areas of robotics, artificial intelligence, systems modeling, and autonomous control.

Site Automation Thomas Bock,Thomas Linner,2016-04-18 Site Automation extends the new technology of robotics in building-component manufacturing and construction to on-site structured environments and on-site automated factories.

Rail International ,1985

Tourism-Oriented Policing and Protective Services Tarlow, Peter E.,2018-12-14 Many countries around the world rely on the tourism industry to support their economies, making the safety and protection of travelers and workers in the industry of paramount importance. However, few police departments around the world have special divisions dedicated to the protection of tourism, tourists, and tourist centers. Tourism-Oriented Policing and Protective Services is a collection of innovative research on new methods and strategies for ensuring the security and safety of tourists, while also allowing law enforcement to take an active role in aiding the economic development of their city. While highlighting topics including visitor protection, cultural tourism, and security services, this book is ideally designed for government officials, policymakers, law enforcement, professionals within the tourism industry, academicians, researchers, and students.

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Railway Robots Introduction

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