

Advances in Unmanned Marine Vehicles

Edited by G.N. Roberts
and R. Sutton

Advances In Unmanned Marine Vehicles Iee Control Series

Bruno Siciliano, Oussama Khatib



Advances In Unmanned Marine Vehicles Iee Control Series:

Advances in Unmanned Marine Vehicles G.N. Roberts,R. Sutton,2006-01-31 Unmanned marine vehicles UMVs include autonomous underwater vehicles remotely operated vehicles semi submersibles and unmanned surface craft Considerable importance is being placed on the design and development of such vehicles as they provide cost effective solutions to a number of littoral coastal and offshore problems This book highlights the advanced technology that is evolving to meet the challenges being posed in this exciting and growing area of research Marine Monitoring Platforms Edin Omerdic,Daniel Toal,John Wallace,2009-10-02 Ireland is a small Island in the North Atlantic with geography weather and thus way of life dominated by the ocean This book presents a comprehensive study of the challenges and technologies for observing the ocean environment It describes the state of the art in marine platforms internationally and provides a vision of platform technology in 2021 and beyond Opportunities for ocean monitoring are detailed in the Irish context and recommendations are given for future development and investments in marine platforms **Marine Navigation and Safety of Sea**

Transportation Adam Weintrit,2009-06-02 In recent years much attention has been paid to safety of navigation and marine transportation Marine Navigation and Safety of Sea Transportation addresses the main aspects of marine safety including safety of navigation manoeuvring and ship handling systems marine traffic control and automatic identification systems navigation tools system **Navigation of Autonomous Marine Robots** Thomas Glotzbach,2020-04-30 Thomas Glotzbach spotlights that navigation within marine robotics can benefit from cooperative teams in a way that justifies the increased effort to operate several vehicles at once He features discussions of different scenarios modeling of systems and estimation algorithms for comparable situations The chapter on the used methodologies may allow a reader with only basic knowledge in control theory to obtain deeper insight in advanced concepts such as observability and state estimation even without any background in marine robotics *Springer Handbook of Robotics* Bruno Siciliano,Oussama Khatib,2016-07-27 The second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics Reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains Interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences Mathematics as well as the organization s Award for Engineering Technology The second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the

field and scholars from related disciplines The contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications Further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook s team A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app Springer Handbook of Robotics Multimedia Extension Portal <http://handbookofrobotics.org>

Telematics in the Transport Environment Jerzy Mikulski, 2012-09-25 This book constitutes the proceedings of the 12th International Conference on Transport Systems Telematics TST 2012 held in Katowice Ustron Poland in October 2012 The 48 papers included in this volume were carefully reviewed and selected for inclusion in this book Transport telematics are the systems using the information and communication technologies in the area of infrastructure and of means of transport and its participants An intelligent transport covers systems that allow through the data transmission and analysis to influence the behaviour of road users and the action of technical elements in means of transport or along the traffic route Intelligent transport systems in accordance with the European Directive are used for the transport management informatisation The research shows that the use of telematics can significantly increase the efficiency of the transport system the road safety and the environmental protection This book provides an overview of solutions being developed in the field of intelligent transportation systems and includes theoretical and case studies in the countries of conference participants

Proceedings AAAI ... National Conference on Artificial Intelligence, 2005

Proceedings of the Twenty-third AAAI Conference on Artificial Intelligence and the Twentieth Innovative Applications of Artificial Intelligence Conference American Association for Artificial Intelligence, 2008

Computer Vision and Graphics Leszek J. Chmielewski, Ryszard Kozera, Arkadiusz Orłowski, Konrad Wojciechowski, Alfred M. Bruckstein, Nicolai Petkov, 2018-09-13 This book constitutes the refereed proceedings of the International Conference on Computer Vision and Graphics ICCVG 2018 held in Warsaw Poland in September 2018 The 45 full papers were selected from 117 submissions The contributions are thematically arranged as follows computer graphics image quality and graphic user interfaces object classification and features 3D and stereo image processing low level and middle level image processing medical image analysis motion analysis and tracking security and protection pattern recognition and new concepts in classification

Intelligent Robotics and Applications Huayong Yang, Honghai Liu, Jun Zou, Zhouping Yin, Lianqing Liu, Geng Yang, Xiaoping Ouyang, Zhiyong Wang, 2023-10-12 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 *Trends in Advanced Unmanned Aerial Systems* Zheng Hong (George) Zhu,Xiaohui Wei,Renfu Li,2025-03-17 This book presents an extensive exploration of the latest trends in Unmanned Aerial Systems UAS technology and the boundless opportunities they offer Encompassing various facets of the UAS domain including Autonomy and Control Flight Dynamics and Control Communication and Navigation Sensing and Perception Design and Simulation Materials and Mechanics the book is tailored for researchers engineers and practitioners deeply involved in the field of UAS It delves into the intricate technicalities of UAS technology providing profound insights and comprehensive discussions on its fundamental principles The Proceedings of 2024 International Conference on Artificial Intelligence and Autonomous Transportation Jun Liu,Jianjian Yang,Minyi Xu,Quan Yu,Wenchao Shen,2025-03-27 This book reflects the latest research trends methods and experimental results in the field of Artificial Intelligence and Autonomous Transportation which covers abundant state of the art research theories and ideas As a vital research area that is highly relevant to current developments in a number of technological domains the topics covered include Autonomous Transportation Systems Autonomous Transportation Management and

Control Technology Autonomous Transportation Equipment Technology Vehicular Networking and Information Security Emerging Technologies and Future Mobility Intelligent water transportation technology Cross Domain Transportation Technology and so on The goal of the proceedings is to provide a major interdisciplinary forum for researchers engineers academics and industry professionals to present the most innovative research and development in the field of Artificial Intelligence and Autonomous Transportation Engineers and researchers from academia industry and government will also explore an insight view of the solutions that combine ideas from multiple disciplines in this area The volumes serve as an excellent reference work for researchers and graduate students working in the areas of rail transportation electrical engineering and information technology

Fuel Cell and Hydrogen Technologies in Maritime Transportation C. Ozgur Colpan,Suleyman Aykut Korkmaz,Olgun Konur,2025-08-31 Fuel Cell and Hydrogen Technologies in Maritime Transportation looks at the role of hydrogen and fuel cells in creating a more sustainable and environmentally friendly maritime industry It explores how hydrogen can revolutionize marine propulsion and highlights innovations and solutions for greener energy including onboard hydrogen production hybrid energy systems and advanced fuel cell technologies The book also covers performance and environmental analysis techniques for fuel cell powered marine vessels different fuel options regulatory and safety considerations and port based hydrogen infrastructure It provides insights into developing hydrogen infrastructure at ports and harbors and the economic implications and ecological benefits of adopting green hydrogen in maritime transportation This resource is a must read for engineers maritime professionals researchers and marine enthusiasts who want to stay up to date with the changing landscape of sustainable marine transportation Provides guidelines on the design and modeling of fuel cell powered marine vessels Discusses hydrogen safety and storage options Includes detailed case studies and life cycle assessments for hydrogen fueled marine vehicles Chapter Sustainable Waterborne Transportation with Hydrogen An ecosystem approach to design is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

Advanced Mobile Robotics DaeEun Kim,2020-03-06 Mobile robotics is a challenging field with great potential It covers disciplines including electrical engineering mechanical engineering computer science cognitive science and social science It is essential to the design of automated robots in combination with artificial intelligence vision and sensor technologies Mobile robots are widely used for surveillance guidance transportation and entertainment tasks as well as medical applications This Special Issue intends to concentrate on recent developments concerning mobile robots and the research surrounding them to enhance studies on the fundamental problems observed in the robots Various multidisciplinary approaches and integrative contributions including navigation learning and adaptation networked system biologically inspired robots and cognitive methods are welcome contributions to this Special Issue both from a research and an application perspective

POLAR NIGHT Marine Ecology Jørgen Berge,Geir Johnsen,Jonathan H. Cohen,2020-04-08 Until recently the prevailing view of marine life at high latitudes

has been that organisms enter a general resting state during the dark Polar Night and that the system only awakens with the return of the sun Recent research however with coordinated multidisciplinary field campaigns based on the high Arctic Archipelago of Svalbard have provided a radical new perspective Instead of a system in dormancy a new perspective of a system in full operation and with high levels of activity across all major phyla is emerging Examples of such activities and processes include Active marine organisms at sea surface water column and the sea floor At surface we find active foraging in seabirds and fish in the water column we find a high biodiversity and activity of zooplankton and larvae such as active light induced synchronized diurnal vertical migration and at seafloor there is a high biodiversity in benthic animals and macroalgae The Polar Night is a period for reproduction in many benthic and pelagic taxa mass occurrence of ghost shrimps Caprellides high abundance of Ctenophores physiological evidence of micro and macroalgal cells that are ready to utilize the first rays of light when they appear deep water fishes found at water surface in the Polar night and continuous growth of bivalves throughout the winter These findings not only begin to shape a new paradigm for marine winter ecology in the high Arctic but also provide conclusive evidence for a top down controlled system in which primary production levels are close to zero In an era of environmental change that is accelerated at high latitudes we believe that this new insight is likely to strongly impact how the scientific community views the high latitude marine ecosystem Despite the overwhelming darkness the main environmental variable affecting marine organisms in the Polar Night is in fact light The light regime during the Polar Night is unique with respect to light intensity spectral composition of light and photoperiod

Advances in Mechanism, Machine Science and Engineering in China Xinjun Liu, 2023-05-31 This book presents the conference proceedings of the 23rd IFToMM China International Conference on Mechanism and Machine Science Engineering IFToMM CCMMS 2022 CCMMS was initiated in 1982 and it is the most important forum held in China for the exchange of research ideas presentation of technical and scientific achievements and discussion of future directions in the field of mechanism and machine science The topics include parallel hybrid mechanism synthesis and analysis theoretical computational kinematics compliant mechanisms and micro nano mechanisms reconfigurable and metamorphic mechanisms space structures mechanisms and materials structure adaptation in space environment and ground testing large scale membrane deployable structures construction and application of super scale space systems cams gears and combining mechanisms fluid power mechatronics drivetrain mechanical design theory and methods dynamics and vibration control mechatronics biologically inspired mechanisms and robotics medical rehabilitation robotics mobile robotics soft robotics heavy non road mobile machine robot applications engineering education on mechanisms machines and robotics This book provides a state of the art overview of current advances in mechanism and machine science in China The inspiring ideas presented in the papers enlighten academic research and industrial application The potential readers include academic researchers and industrial professionals in mechanism and machine science

Image Processing: Concepts, Methodologies, Tools, and

Applications Management Association, Information Resources,2013-05-31 Advancements in digital technology continue to expand the image science field through the tools and techniques utilized to process two dimensional images and videos Image Processing Concepts Methodologies Tools and Applications presents a collection of research on this multidisciplinary field and the operation of multi dimensional signals with systems that range from simple digital circuits to computers This reference source is essential for researchers academics and students in the computer science computer vision and electrical engineering fields

Advances in Autonomous Navigation through Intelligent Technologies Niharika Singh,Thipendra P. Singh,Brian Azzopardi,2025-02-10 Navigation has become highly intelligent over the last 100 years Today we have autonomous navigation in several vehicles that is being revolutionized through computational intelligence This book Advances in Autonomous Navigation through Intelligent Technologies presents today s issues solutions and adaptation techniques for creating safe autonomous navigating vehicles with the use of advanced technologies The chapters in the book discuss autonomous navigation as a major issue in robotics and artificial intelligence The book covers a range of topics that include the architecture of autonomous navigation algorithms for robot positioning and navigation methodologies for controlling autonomous systems self learning routing protocols for autonomous unmanned aerial networks A UAN and more The book also covers the concepts and algorithms of mobile devices sensors and IoT and other related components required for autonomous navigation The book includes a survey on smart intrusion detection enabled flying ad hoc networks FANETs a decentralized communication system solely formed by unmanned aerial vehicles in healthcare Key highlights Introduces the concept of autonomous navigation to help readers understand the technology from ground up Covers the architecture including robot positioning navigation and control Provides information about the use of simulation tools and machine learning techniques for the implementation of autonomous navigation Provides in depth knowledge on the use of emerging technologies in navigation of mobile devices along with the use of ICT in autonomous navigation Discusses the present and the future of the robotics industry Presenting cutting edge research in the field of autonomous navigation this book will serve as a valuable resource for academics researchers and others interested in learning about and comprehending the many advancements in autonomous navigation

Innovations and Developments in Unmanned Aerial Vehicles Mellal, Mohamed Arezk,2025-04-09 Unmanned Aerial Vehicles UAVs are transforming industries by enhancing efficiency safety and accessibility in sectors such as agriculture logistics defense and disaster response Innovations in UAV design propulsion and autonomy are driving new possibilities from precision farming and infrastructure inspection to environmental monitoring and emergency aid delivery As these technologies evolve they are reshaping how businesses operate improving data collection and enabling cost effective solutions in previously inaccessible areas Understanding the latest advancements in UAVs is crucial for harnessing their full potential and addressing regulatory ethical and technical challenges in their widespread adoption Innovations and Developments in Unmanned Aerial Vehicles offers a comprehensive exploration of the latest

developments and emerging trends in the field of UAV technology From advancements in design and propulsion systems to breakthroughs in autonomy and applications this book provides an in depth analysis of the rapidly evolving UAV landscape Covering topics such as fault detections aerodynamic principles and control optimization this book is an excellent resource for engineers technologists industry stakeholders policymakers industry leaders manufacturers professionals researchers scholars academicians and more

Advanced Model Predictive Control for Autonomous Marine Vehicles Yang Shi,Chao Shen,Henglai Wei,Kunwu Zhang,2023-02-13 This book provides a comprehensive overview of marine control system design related to underwater robotics applications In particular it presents novel optimization based model predictive control strategies to solve control problems appearing in autonomous underwater vehicle applications These novel approaches bring unique features such as constraint handling prioritization between multiple design objectives optimal control performance and robustness against disturbances and uncertainties into the control system design They therefore form a more general framework to design marine control systems and can be widely applied

Advanced Model Predictive Control for Autonomous Marine Vehicles balances theoretical rigor providing thorough analysis and developing provably correct design conditions and application perspectives addressing practical system constraints and implementation issues Starting with a fixed point positioning problem for a single vehicle and progressing to the trajectory tracking and path following problem of the vehicle and then to the coordination control of a large scale multi robot team this book addresses the motion control problems increasing their level of challenge step by step At each step related subproblems such as path planning thrust allocation collision avoidance and time constraints for real time implementation are also discussed with solutions In each chapter of this book compact and illustrative examples are provided to demonstrate the design and implementation procedures As a result this book is useful for both theoretical study and practical engineering design and the tools provided in the book are readily applicable for real world implementation

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