Usv Unmanned Surface Vehicle

Florida. Department of Transportation. Research Center

The Navy Unmanned Surface Vehicle (Usv) Master Plan U. S. U.S. Navy,2014-12-09 The nation is faced, currently and for the foreseeable future, with a multitude of military challenges that are unlike any seen in recent history. The enemy is diverse, not easily recognizable, and operates in atypical ways. These assymetic threats have the ability to do great harm to our maritime forces and infrastructure, and the Navy must have the ability to address and defeat them in support of national Defense objectives, while continuing to execute its traditional roles. Unmanned systems have the potential, and in some cases the demonstrated ability, to reduce risk to manned forces, to provide the force multiplication necessary to accomplish our missions, to perform tasks which manned vehicles cannot, and to do so in a way that is affordable to the nation. The Unmanned Surface Vehicle (USV) Master Plan was chartered by the Program Executive Officer for Littoral and Mine Warfare (PEO (LMW)). It provides the guide for USV development to effectively meet the Navy's strategic planning and Fleet objectives and the force transformation goals of the Department of Defense (DoD)to the year 2020. Plan development was built on the results from Workshops conducted at the Naval War College and the Fleet ASW Training Center in late 2004 and early 2006, respectively, with major analysis, synthesis, and development efforts being conducted by a USV Master Plan Core Team.

United States Navy Employment Options for Unmanned Surface Vehicles (USVs) Scott Savitz,Irv Blickstein,Peter Buryk,Robert W. Button,Paul DeLuca,James A. Dryden,Jason Mastbaum,Jan Osburg,Philip Padilla,Amy Potter,Carter C. Price,Lloyd Thrall,Susan K. Woodward,Roland J. Yardley,John Yurchak,2013 This report assesses in what ways and to what degree unmanned surface vehicles (USVs) are suitable for supporting U.S. Navy missions and functions. It briefly characterizes the current and emerging USV marketplaces to provide a baseline for near-term capabilities, describes USV concepts of employment to support diverse U.S. Navy missions and functions, and evaluates these concepts of employment to identify specific missions and functions for which they are highly suitable. USVs offer several particular strengths relative to other platforms, including the ability to interact both above and below the waterline, enabling them to serve as critical nodes for cross-domain networks. They also have potentially longer endurance, larger payloads, and higher power outputs than comparably sized unmanned air or undersea vehicles. Additionally, their greater risk tolerance compared with manned systems makes them desirable platforms for overcoming adversaries' anti-access and area-denial measures. These strengths

make USVs particularly suitable for missions such as characterizing the physical environment, observation and collection regarding adversaries, mine warfare, military deception/information operations/electronic warfare, defense against small boats, testing and training, search and rescue, and the support of other unmanned vehicles. However, USVs need advanced autonomy and assured communications to complete complex missions, as well as any missions in complex environments. Autonomous seakeeping and maritime traffic avoidance are USV-specific capabilities that likely need to be developed with U.S. Navy involvement. Also, optional manning and payload modularity can enhance the desirability of USV programs.

Towards Unmanned Surface Vehicles Huarong Zheng,Chenguang Liu,2025-09-23 Towards Unmanned Surface Vehicles: Methods and Practices presents the latest overview, methodologies, design practices, and applications of unmanned surface vehicles (USVs). The authors introduce advanced theories and algorithms for the analysis and design of a maritime unmanned surface vehicle system, covering the sensing, path following, navigation, and control of the ocean surface environment. They demonstrate the architectural design, implementation, and field testing of USVs as well as key applications, such as hostile military scenarios, scientific oceanographic observation, and intelligent waterborne transportation. In addition, they address the open challenges in the field and propose the corresponding future perspectives. The book will appeal to researchers, graduate students, and engineers interested in USVs.

Autonomous Vehicles in Support of Naval Operations National Research Council,Division on Engineering and Physical Sciences,Naval Studies Board,Committee on Autonomous Vehicles in Support of Naval Operations,2005-09-05 Autonomous vehicles (AVs) have been used in military operations for more than 60 years, with torpedoes, cruise missiles, satellites, and target drones being early examples.1 They have also been widely used in the civilian sector-for example, in the disposal of explosives, for work and measurement in radioactive environments, by various offshore industries for both creating and maintaining undersea facilities, for atmospheric and undersea research, and by industry in automated and robotic manufacturing. Recent military experiences with AVs have consistently demonstrated their value in a wide range of missions, and anticipated developments of AVs hold promise for increasingly significant roles in future naval operations. Advances in AV capabilities are enabled (and limited) by progress in the technologies of computing and robotics, navigation, communications and networking, power sources and propulsion, and materials. Autonomous Vehicles in Support of Naval Operations is a forward-looking discussion of the naval operational environment and vision for the Navy and Marine Corps and of naval mission needs and potential applications and limitations of AVs. This report considers the potential of AVs for naval operations, operational needs and technology issues, and opportunities for improved operations.

Unmanned Surface Vessel (USV) Systems for Bridge Inspection Florida. Department of Transportation. Research Center,2016 The use of unmanned surface vehicles (USVs) for bridge inspection has been explored. A proof of concept system was developed and tested using an existing USV at Florida Atlantic University (FAU) outfitted with a real-time

imagining sonar. Field experiments were conducted with the system at several sites. The system was able to autonomously collect images of bridge structures, both underwater and at the waterline, by traversing a series of preprogrammed waypoints along a bridge and station-keeping at locations of interest. The results of the field tests and background literature survey are presented, and a set of recommendations for use of USV-based bridge inspection systems is given. It is suggested that the application of advanced robotics techniques for Human-Robot-Interaction and autonomous mapping/imaging can improve the preliminary inspection approach implemented during this study.

A High-level Fuzzy Logic Guidance System for an Unmanned Surface Vehicle (USV) Tasked to Perform an Autonomous Launch and Recovery (ALR) of an Unmanned Underwater Vehicle (UUV) David Pearson,2014 There have been much technological advances and research in Unmanned Surface Vehicles (USV) as a support and delivery platform for Autonomous/Unmanned Underwater Vehicles (AUV/UUV). Advantages include extending underwater search and survey operations time and reach, improving underwater positioning and mission awareness, in addition to minimizing the costs and risks associated with similar manned vessel operations. The objective of this thesis is to present the design and development a high-level fuzzy logic guidance controller for a WAM-V 14 USV in order to autonomously launch and recover a REMUS 100 AUV. The approach to meeting this objective is to develop ability for the USV to intercept and rendezvous with an AUV that is in transit in order to maximize the probability of a final mobile docking maneuver. Specifically, a fuzzy logic Rendezvous Docking controller has been developed that generates Waypoint-Heading goals for the USV to minimize the cross-track errors between the USV and AUV. A subsequent fuzzy logic Waypoint-Heading controller has been developed to provide the desired heading and speed commands to the low-level controller given the Waypoint-Heading goals. High-level mission control has been extensively simulated using Matlab and partially characterized in real-time during testing. Detailed simulation, experimental results and findings will be reported in this paper.

Systems, Decision and Control in Energy VII Vitalii Babak,Artur Zaporozhets,2025-06-10 This book presents a curated selection of contemporary research, capturing the progress of Ukrainian and international scientists in addressing the complex issues surrounding energy systems, sustainable fuels, and efficient transport solutions. The world’s growing energy demands, coupled with pressing environmental concerns, present significant challenges and opportunities in the energy sector. The advancements within this sector are increasingly driven by innovations in technology, information systems, and cross-disciplinary research efforts. Through this collaborative scientific endeavor, the authors aim to offer a holistic view of current advancements and innovative solutions in three core areas: energy informatics, fuels, and transport. Energy informatics integrates data analytics, digital infrastructure, and real-time monitoring to improve energy efficiency and support sustainable energy transitions. The works presented in this section illustrate how the integration of cutting-edge computational models, artificial intelligence, and big data analytics is enabling smarter, more adaptive energy systems.

Topics covered include optimization of energy consumption, predictive modeling for energy needs, and the development of robust frameworks to manage and process vast amounts of energy-related data. This section highlights how energy informatics serves as a foundational tool in meeting the evolving demands for efficient and sustainable energy. In the fuels section, the book addresses the urgent need for alternative and cleaner energy sources. The global push toward reducing greenhouse gas emissions and mitigating climate change impacts has accelerated research into innovative fuel sources. This section underscores the critical role of novel fuel technologies in ensuring energy security and reducing environmental impact. Transport, the third section, encompasses research on the transformation of the transport sector toward sustainability and efficiency. Transportation is a major consumer of energy and a significant source of emissions, making it a focal area in the transition to cleaner energy systems. This section presents a variety of studies on electric mobility and the development of low-emission technologies.

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.

U.S. Navy Employment Options for Unmanned Surface Vehicles (USVs) Scott Savitz,Irv Blickstein,Peter Buryk,Robert W. Button,Paul DeLuca,James A. Dryden,Jason Mastbaum,Jan Osburg,Philip Padilla,Amy Potter,2007

Navy Civil Engineer ,2000

The 1st International Conference on Maritime Education and Development Sanja Bauk,Stojče Dimov Ilčev,2021-03-24 This book presents the proceedings of the 1st International Conference on Maritime Education and Development. The conference exchanges knowledge, experiences and ideas in the domain of maritime education and development, with the ultimate goal of generating new knowledge and implementing smart strategies and actions. Topics include the 4th Industrial Revolution (4IR); unmanned air/sea surface/underwater vehicles (UxV); the digital divide and Internet accessibility; digital infrastructure; IMO E-navigation strategy; smart-ship concept; automation and digitalization; cyber security; and maritime future. This proceedings pertains to researchers, academics, students, and professionals in the realm of maritime education and development.

Intelligent Robotics Zengguang Hou,Xianping Fu,Qinghua Hu,Xin Fan,Xianhua Song,Zeguang Lu,2025-02-14 This book constitutes selected papers presented during the 5th China Annual Intelligent Robotics Conference, CIRAC 2024, held in Dalian, China, in September 2024. The 28 full papers presented in this volume were carefully reviewed and selected from 96 submissions. They are grouped into the following topics: Deep Learning Architecture; Low-Level Vision; Multi-modal

learning; Pattern Recognition; Robotics; and Signal processing.

Point Cloud Data Fusion for Enhancing 2D Urban Flood Modelling Vorawit Meesuk,2017-07-20 Modelling urban flood dynamics requires proper handling of a number of complex urban features. Although high-resolution topographic data can nowadays be obtained from aerial LiDAR surveys, such top-view LiDAR data still have difficulties to represent some key components of urban features. Incorrectly representing features like underpasses through buildings or apparent blockage of flow by sky trains may lead to misrepresentation of actual flood propagation, which could easily result in inadequate flood-protection measures. Hence proper handling of urban features plays an important role in enhancing urban flood modelling. This research explores present-day capabilities of using computer-based environments to merge side-view Structure-from-Motion data acquisition with top-view LiDAR data to create a novel multi-source views (MSV) topographic representation for enhancing 2D model schematizations. A new MSV topographic data environment was explored for the city of Delft and compared with the conventional top-view LiDAR approach. Based on the experience gained, the effects of different topographic descriptions were explored for 2D urban flood models of (i) Kuala Lumpur, Malaysia for the 2003 flood event; and (ii) Ayutthaya, Thailand for the 2011 flood event. It was observed that adopting the new MSV data as the basis for describing the urban topography, the numerical simulations provide a more realistic representation of complex urban flood dynamics, thus enhancing conventional approaches and revealing specific features like flood watermarks identification and helping to develop improved flood-protection measures.

Assistive Robotics - Proceedings Of The 18th International Conference On Climbing And Walking Robots And The Support Technologies For Mobile Machines (Clawar 2015) Mohammad Osman Tokhi,Hongye Su,Tianmiao Wang,Gurvinder S Virk,2015-08-13 This book provides state-of-the-art scientific and engineering research findings and developments in the area of mobile robotics and associated support technologies around the theme of assistive robotics. The book contains peer reviewed articles presented at the CLAWAR 2015 conference. The book contains a comprehensive collection of papers on legged locomotion with numbers of legs from two upward to multi-legs, which includes robots cable of climbing walls, poles, or more complex structures such as continuing the distinctive CLAWAR themes. There are also a strong showing of articles covering human assist devices, notably exoskeletal and prosthetic devices, as well as social robots designed to meet the growing challenges of global ageing population.

Proceedings of the 13th National Technical Seminar on Unmanned System Technology 2023—Volume 2 Zainah Md. Zain,Zool Hilmi Ismail,Huiping Li,Xianbo Xiang,Rama Rao Karri,2024-09-16 This book comprises the proceedings of the 13th National Technical Symposium on Unmanned System Technology 2023 (NUSYS’23) held on October 2–3, 2023. It covers a number of topics, including intelligent robotics, novel sensor technology, control algorithms, acoustics signal processing, imaging techniques, biomimetic robots, green energy sources, and underwater communication backbones and protocols, and

it appeals to researchers developing marine technology solutions and policy-makers interested in technologies to facilitate the exploration of coastal and oceanic regions. This book consists of selected papers presented at the 3rd International Conference on Advances in Concrete, Structural, and Geotechnical Engineering (ACSGE 2024) held at BITS Pilani, India. The papers represent the latest research work in the fields of advanced composite materials, advanced computational techniques for structures, applications of nanotechnology in civil engineering, bridge engineering, composite structures, concrete technology, the fatigue life of structures, fire-resistant structures, functionally graded materials and structures, geotechnical processes, ground improvement techniques, offshore structures, performance-based design of structures, pre-cast pre-stressed concrete structures, seismic design, and construction, soil structure interaction, structural health assessment and rehabilitation, sustainability of construction, design, and management. The papers are presented by an international pool of academics, research scientists, and industrial experts and therefore cater to the global audience from the fields of construction materials, design guidelines, geotechnical engineering, concrete infrastructures, and structural engineering. This book is part of a 2-volume series of these conference proceedings, it represents Volume 2 in the series.

Intelligent Robotics and Applications Chee Seng Chan,Hong Liu,Xiangyang Zhu,Chern Hong Lim,Xinjun Liu,Lianqing Liu,Kam Meng Goh,2021-01-08 This book constitutes the proceedings of the 13th International Conference on Intelligent Robotics and Applications, ICIRA 2020, held in Kuala Lumpur, Malaysia, in November 2020. The 45 full papers and 3 short papers were carefully reviewed and selected from 66 submissions. The accepted papers were grouped into various subtopics including Advanced Measurement and Machine Vision System; Automation; Human-Robot Interaction; Mobile Robots and Intelligent Autonomous System; Recent Trends in Computational Intelligence; Robot Design, and Development and Control. Due to the Corona pandemic ICIRA 2020 was held as a virtual event.

Proceedings of the 11th International Conference on Robotics, Vision, Signal Processing and Power Applications Nor Muzlifah Mahyuddin,Nor Rizuan Mat Noor,Harsa Amylia Mat Sakim,2022-02-11 The proceeding is a collection of research papers presented at the 11th International Conference on Robotics, Vision, Signal Processing & Power Applications (RoViSP 2021). The theme of RoViSP 2021 “Enhancing Research and Innovation through the Fourth Industrial Revolution (IR 4.0)” served as a platform for researchers, scientists, engineers, academicians as well as industrial professionals from all around the globe to present and exchange their research findings and development activities through oral presentations. The book covers various topics of interest, including: Robotics, Control, Mechatronics and Automation Telecommunication Systems and Applications Electronic Design and Applications Vision, Image and Signal Processing Electrical Power, Energy and Industrial Applications Computer and Information Technology Biomedical Engineering and Applications Intelligent Systems Internet-of-things Mechatronics Mobile Technology

Proceedings of 2021 International Conference on Autonomous Unmanned Systems (ICAUS 2021) Meiping Wu,Yifeng

Niu,Mancang Gu,Jin Cheng,2022-03-18 This book includes original, peer-reviewed research papers from the ICAUS 2021, which offers a unique and interesting platform for scientists, engineers and practitioners throughout the world to present and share their most recent research and innovative ideas. The aim of the ICAUS 2021 is to stimulate researchers active in the areas pertinent to intelligent unmanned systems. The topics covered include but are not limited to Unmanned Aerial/Ground/Surface/Underwater Systems, Robotic, Autonomous Control/Navigation and Positioning/ Architecture, Energy and Task Planning and Effectiveness Evaluation Technologies, Artificial Intelligence Algorithm/Bionic Technology and Its Application in Unmanned Systems. The papers showcased here share the latest findings on Unmanned Systems, Robotics, Automation, Intelligent Systems, Control Systems, Integrated Networks, Modeling and Simulation. It makes the book a valuable asset for researchers, engineers, and university students alike.

Intelligent Computation and Analytics on Sustainable Energy and Environment Amarjit Roy,Chiranjit Sain,Raja Ram Kumar,Sandip Chanda,Valentina Emilia Balas,Saad Mekhilef,2024-11-18 The 1st International Conference on Intelligent Computation and Analytics on Sustainable Energy (ICICASEE 2023) was held at Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda, West Bengal, India. GKCIET is a premier engineering institute located in Malda, West Bengal, India. Being established in 2010, at present the institute offers B.Tech and Diploma Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Science and engineering and Food process□ing technology. The conference was aimed to provide a platform for researchers, academicians, indus□try professionals, and students to exchange knowledge and ideas on intelligent computation, analytics, and their applications in sustainable energy systems. The Department of Electrical Engineering of the institute hosted the conference from September 21–23, 2023.

AETA 2015: Recent Advances in Electrical Engineering and Related Sciences Vo Hoang Duy,Tran Trong Dao,Ivan Zelinka,Hyeung-Sik Choi,Mohammed Chadli,2016-03-09 This proceeding book consists of 10 topical areas of selected papers like: telecommunication, power systems, robotics, control system, renewable energy, power electronics, computer science and more. All selected papers represent interesting ideas and state of the art overview. Readers will find interesting papers of those areas about design and implement of dynamic positioning control system for USV, scheduling problems, motor control, backtracking search algorithm for distribution network and others. All selected papers represent interesting ideas and state of art overview. The proceeding book will also be a resource and material for practitioners who want to apply discussed problems to solve real-life problems in their challenging applications. It is also devoted to the studies of common and related subjects in intensive research fields of modern electric, electronic and related technologies. For these reasons, we believe that this proceeding book will be useful for scientists and engineers working in the above-mentioned fields of research applications.

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