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Handbook of Unmanned Aerial Vehicles

 Springer

Handbook Of Unmanned Aerial Vehicles

Fadi Al-Turjman



Handbook Of Unmanned Aerial Vehicles:

Handbook of Unmanned Aerial Vehicles Kimon P. Valavanis, George J. Vachtsevanos, 2014-08-29 The Handbook of Unmanned Aerial Vehicles is a reference text for the academic and research communities industry manufacturers users practitioners Federal Government Federal and State Agencies the private sector as well as all organizations that are and will be using unmanned aircraft in a wide spectrum of applications The Handbook covers all aspects of UAVs from design to logistics and ethical issues It is also targeting the young investigator the future inventor and entrepreneur by providing an overview and detailed information of the state of the art as well as useful new concepts that may lead to innovative research The contents of the Handbook include material that addresses the needs and know how of all of the above sectors targeting a very diverse audience The Handbook offers a unique and comprehensive treatise of everything one needs to know about unmanned aircrafts from conception to operation from technologies to business activities users OEMs reference sources conferences publications professional societies etc It should serve as a Thesaurus an indispensable part of the library for everyone involved in this area For the first time contributions by the world s top experts from academia industry government and the private sector are brought together to provide unique perspectives on the current state of the art in UAV as well as future directions The Handbook is intended for the expert practitioner who seeks specific technical business information for the technically oriented scientists and engineers but also for the novice who wants to learn more about the status of UAV and UAV related technologies The Handbook is arranged in a user friendly format divided into main parts referring to UAV Design Principles UAV Fundamentals UAV Sensors and Sensing Strategies UAV Propulsion UAV Control UAV Communication Issues UAV Architectures UAV Health Management Issues UAV Modeling Simulation Estimation and Identification MAVs and Bio Inspired UAVs UAV Mission and Path Planning UAV Autonomy UAV Sense Detect and Avoid Systems Networked UAVs and UAV Swarms UAV Integration into the National Airspace UAV Human Interfaces and Decision Support Systems Human Factors and Training UAV Logistics Support UAV Applications Social and Ethical Implications The Future of UAVs Each part is written by internationally renowned authors who are authorities in their respective fields The contents of the Handbook supports its unique character as a thorough and comprehensive reference book directed to a diverse audience of technologists businesses users and potential users managers and decision makers novices and experts who seek a holistic volume of information that is not only a technical treatise but also a source for answers to several questions on UAV manufacturers users major players in UAV research costs training required and logistics issues *Handbook of Unmanned Aerial Vehicles* Franco Victor Bacha, Sok Chea Am, 2025-03 Introduction to Aerial Vehicles Provide an overview of aerial vehicles covering different types such as manned aircraft unmanned aerial vehicles UAVs drones and satellites Discuss the primary classifications based on functionality size and operational altitude Principles of Aerodynamics Explore the fundamental principles of aerodynamics including lift drag thrust and weight and how these forces impact flight Explain how

wing design airspeed and altitude influence the performance and maneuverability of aerial vehicles Control Systems and Navigation Examine the control systems that govern aerial vehicle operation including avionics autopilot systems and remote control technologies Discuss navigation methods such as GPS and inertial navigation systems for accurate positioning and movement Types and Uses of UAVs and Drones Provide insights into different types of unmanned aerial vehicles from small drones to large military UAVs Discuss the wide range of applications including surveillance agriculture environmental monitoring and delivery services Safety Regulations and Airspace Management Outline the safety protocols and regulations governing aerial vehicles including licensing requirements airspace classifications and safety practices Discuss regulatory bodies such as the FAA and ICAO and their roles in ensuring safe aerial operations Emerging Technologies and Future Trends Explore innovations in aerial vehicle technology including advancements in electric propulsion artificial intelligence for autonomous navigation and hybrid power systems Discuss the future potential of aerial vehicles in transportation urban air mobility and defense

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The Handbook of Drone Photography Chase Guttman,2017-02-21 Drones are the next frontier in photography This cutting edge technology still unexplored by the masses can bring visual artistry to new and exciting heights The Handbook of Drone Photography will be the go to manual for consumers wishing to harness the power of drones to capture stunning aerial photographs This book covers everything one needs to choose the right drone to get airborne and to capture and share incredible content With easy and straightforward instruction the text will familiarize readers with their craft and its controls Readers will master drones extraordinary image capturing capabilities and review detailed photography tips that can bring their artistic vision to life For the first time aerial photography is open to everyone and award winning travel photographer Chase Guttman will guide readers drone ventures from beginning to end The

Handbook of Drone Photography can help anyone break into this thrilling high potential space and launch their own lofty explorations today *Handbook of Human Factors in Air Transportation Systems* Steven James Landry,2017-11-22 One of the primary applications of human factors engineering is in the aviation domain and the importance of human factors has never been greater as U S and European authorities seek to modernize the air transportation system through the introduction of advanced automation This handbook provides regulators practitioners researchers and educators a comprehensive resource for understanding and applying human factors to air transportation

Unmanned Aerial Vehicles P. K. Garg,2021-07-29 This book provides an overview of the basic concepts and components of UAVs the various sensors used architecture of autonomous UAVs communication tools and devices to acquire real time data from UAVs the software needed to analyze the UAV data required rules and regulations to fly UAVs various application areas e g construction oil and gas mining agriculture forestry search and rescue surveillance transportation disaster logistics and future areas of research which is needed to handle relevant challenges

Unmanned Aerial Vehicle Cellular Communications Agbotiname Lucky Imoize,Sardar M. N. Islam,T. Poongodi,Lakshmana Kumar Ramasamy,B.V.V. Siva Prasad,2022-10-11 The book discusses how Unmanned Aerial Vehicles UAVs can leverage the sub 6 GHz massive MIMO to address cell selection and interference issues in future wireless networks The book takes a close look at utilizing UAVs to achieving direct and efficient device to device D2D communications in the sky Also the key 6G enablers cell free architectures artificial intelligence reconfigurable intelligent surfaces THz communications and non terrestrial networks for UAV communication are broached and the primary technological challenges of each enabler are discussed extensively Furthermore the book covers the design of adaptable UAVs to operate in diverse and harsh environmental conditions Additionally the existing UAVs networking protocols and how these can be greatly enhanced to address the issue of intermittent network changes and channel impairments are discussed The prospects and societal benefits envisioned in future UAVs are also presented

Unmanned Aerial Vehicles in Smart Cities Fadi Al-Turjman,2020-04-20 This book addresses the major challenges in realizing unmanned aerial vehicles UAVs in IoT based Smart Cities The challenges tackled vary from cost and energy efficiency to availability and service quality The aim of this book is to focus on both the design and implementation aspects of the UAV based approaches in IoT enabled smart cities applications that are enabled and supported by wireless sensor networks 5G and beyond The contributors mainly focus on data delivery approaches and their performability aspects This book is meant for readers of varying disciplines who are interested in implementing the smart planet environments vision via wireless wired enabling technologies Involves the most up to date unmanned aerial vehicles UAV assessment and evaluation approaches Includes innovative operational ideas in agriculture surveillance rescue etc Pertains researchers scientists engineers and practitioners in the field of smart cities IoT and communications Fadi Al Turjman received his Ph D from Queen s University Canada He is a full professor and a research center director at Near East

University Nicosia He is a leading authority in the area of IoT and intelligent systems His publication history spans over 250 publications in addition to his editorship in top journals such as the IEEE Communication Surveys and Tutorials and the Elsevier Sustainable Cities and Society Integration of Unmanned Aerial Vehicles in Wireless Communication and Networks Dushantha Nalin K Jayakody, P. Muthuchidambaramanathan, Rui Dinis, Stefan Panic, 2022-07-06 This book presents a comprehensive overview of Unmanned Aerial Vehicles UAV and their integration of wireless communications and networks including inherent challenges and open access concerns The authors present the latest technologies associated with UAV assisted wireless communications and networks by linking their association with 5G Wireless Networks The authors include positioning of UAV coagulation attack of UAV and the green perspective of UAV communication systems The book explains how the UAV can be integrated with 5G wireless schemes such as ultra reliable low density communications full duplex and non orthogonal multiple access NOMA for 5G This book targets graduate students researchers and industry personnel

Nonlinear Control of Robots and Unmanned Aerial Vehicles Ranjan Vepa, 2016-10-14 Nonlinear Control of Robots and Unmanned Aerial Vehicles An Integrated Approach presents control and regulation methods that rely upon feedback linearization techniques Both robot manipulators and UAVs employ operating regimes with large magnitudes of state and control variables making such an approach vital for their control systems design Numerous application examples are included to facilitate the art of nonlinear control system design for both robotic systems and UAVs in a single unified framework MATLAB and Simulink are integrated to demonstrate the importance of computational methods and systems simulation in this process **Design Optimization of Unmanned Aerial Vehicles** Athanasios Papageorgiou, 2019-11-13 Over the last years Unmanned Aerial Vehicles UAVs have gradually become a more efficient alternative to manned aircraft and at present they are being deployed in a broad spectrum of both military as well as civilian missions This has led to an unprecedented market expansion with new challenges for the aeronautical industry and as a result it has created a need to implement the latest design tools in order to achieve faster idea to market times and higher product performance As a complex engineering product UAVs are comprised of numerous sub systems with intricate synergies and hidden dependencies To this end Multidisciplinary Design Optimization MDO is a method that can identify systems with better performance through the concurrent consideration of several engineering disciplines under a common framework Nevertheless there are still many limitations in MDO and to this date some of the most critical gaps can be found in the disciplinary modeling in the analysis capabilities and in the organizational integration of the method As an aeronautical product UAVs are also expected to work together with other systems and to perform in various operating environments In this respect System of Systems SoS models enable the exploration of design interactions in various missions and hence they allow decision makers to identify capabilities that are beyond those of each individual system As expected this significantly more complex formulation raises new challenges regarding the decomposition of the problem while at the same time it sets

further requirements in terms of analyses and mission simulation In this light this thesis focuses on the design optimization of UAVs by enhancing the current MDO capabilities and by exploring the use of SoS models Two literature reviews serve as the basis for identifying the gaps and trends in the field and in turn five case studies try to address them by proposing a set of expansions On the whole the problem is approached from a technical as well as an organizational point of view and thus this research aims to propose solutions that can lead to better performance and that are also meaningful to the Product Development Process PDP Having established the above foundation this work delves firstly into MDO and more specifically it presents a framework that has been enhanced with further system models and analysis capabilities efficient computing solutions and data visualization tools At a secondary level this work addresses the topic of SoS and in particular it presents a multi level decomposition strategy multi fidelity disciplinary models and a mission simulation module Overall this thesis presents quantitative data which aim to illustrate the benefits of design optimization on the performance of UAVs and it concludes with a qualitative assessment of the effects that the proposed methods and tools can have on both the PDP and the organization

Unmanned Aerial Vehicles in Civilian Logistics and Supply Chain Management Kille, Tarryn, Bates, Paul R., Lee, Seung Yong, 2019-05-31 Many industries have begun to recognize the potential support that unmanned aerial vehicles UAVs offer and this is no less true for the commercial sector Current research on this field is narrowly focused on technological development to improve the functionality of delivery and endurance of the drone delivery in logistics as well as on regulatory challenges posed by such operations There is a need for further attention to be applied to operational and integration challenges associated with UAVs Unmanned Aerial Vehicles in Civilian Logistics and Supply Chain Management is a collection of innovative research that investigates the opportunities and challenges for the use of UAVs in logistics and supply chain management with a specific aim to focus on the multifaceted impact of drone delivery While highlighting topics including non military operations public management and safety culture this book is ideally designed for government administrators managers industry professionals researchers and students

Computational Intelligence for Unmanned Aerial Vehicles Communication Networks Mariya Ouaisa, Inam Ullah Khan, Mariyam Ouaisa, Zakaria Boulouard, Syed Bilal Hussain Shah, 2022-03-29 This book aims to provide a vision that can combine the best of both Artificial Intelligence AI and communication networks for designing the deployment trajectory to establish flexible Unmanned Aerial Vehicles UAV communication networks This book will discuss the major challenges that can face deploying unmanned aerial vehicles in emergent networks It will focus on possible applications of UAV in a Smart City environment where they can be supported by Internet of Things IoT wireless sensor networks as well as 5G and beyond This book presents the possible problems and solutions the network integration of the UAV and compare the communication technologies to be used This book will be a collection of original contributions regarding state of the art AI ML based solutions in UAV communication networks which can be used for routing protocol design transport layer optimization user application behaviour prediction communication

network optimization security and anomaly detection *UAV Swarm Networks: Models, Protocols, and Systems* Fei Hu, Dongxiu Ou, Xin-lin Huang, 2020-12-28 UAV swarm network has been used in many critical applications such as disaster recovery area surveillance weather monitoring and military communications There are many challenging R 2 college graduate students or researchers who may want to pursue some advanced research on large scale UAV swarming and networking technologies 3 government agencies that determine the future society development in this exciting field and 4 other interested readers with a strong desire to understand the challenges of designing a QoS oriented UAV network The book editors are Dr Fei Hu Professor in Electrical and Computer Engineering at University of Alabama Tuscaloosa Alabama USA Dr Xin Lin Huang Professor in Information and Communication Engineering Tongji University Shanghai China and Dr Dongxiu Ou Professor in Transportation Information Institute at Tongji University Shanghai China Nonlinear Control of Fixed-Wing UAVs with Time-Varying and Unstructured Uncertainties Michail G. Michailidis, Kimon P. Valavanis, Matthew J. Rutherford, 2020-02-21 This book introduces a comprehensive and mathematically rigorous controller design for families of nonlinear systems with time varying parameters and unstructured uncertainties Although the presented methodology is general the specific family of systems considered is the latest NextGen unconventional fixed wing unmanned aircraft with circulation control or morphing wings or a combination of both The approach considers various sources of model and parameter uncertainty while the controller design depends not on a nominal plant model but instead on a family of admissible plants In contrast to existing controller designs that consider multiple models and multiple controllers the proposed approach is based on the one controller fits all models within the unstructured uncertainty interval The book presents a modeling based analysis and synthesis approach with additive uncertainty weighting functions for accurate realization of the candidate systems This differs significantly from existing designs in that it is capable of handling time varying characteristics This research monograph is suitable for scientists engineers researchers and graduate students with a background in control system theory who are interested in complex engineering nonlinear systems *Advancements in Optimization and Nature-Inspired Computing for Solutions in Contemporary Engineering Challenges* Diego Rossit, Carlos Enrique Torres-Aguilar, Adrián Andrés Toncovich, 2025-02-19 This book brings together cutting edge research methodologies and applications in the field of optimization and nature inspired computing providing a comprehensive overview of the latest advancements and their applications in addressing contemporary challenges in engineering The book demonstrates diverse applications of mathematical modeling in various aspects of production logistic design energy materials and other engineering areas The book includes topics in optimization algorithms nature inspired computing multi objective optimization hybrid optimization techniques evolutionary algorithms swarm intelligence machine learning for optimization applications of optimization in engineering sustainable engineering solutions big data analytics for optimization metaheuristic approaches cloud computing in optimization cyber physical systems decision support systems emerging trends in optimization

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