

SMART AUTONOMOUS AIRCRAFT

Flight Control and Planning for UAV

Yasmina Bestaoui Sebbane



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Smart Autonomous Aircraft Yasmina Bestaoui Sebbane, 2015-11-18 With the extraordinary growth of Unmanned Aerial Vehicles UAV in research military and commercial contexts there has been a need for a reference that provides a comprehensive look at the latest research in the area Filling this void *Smart Autonomous Aircraft Flight Control and Planning for UAV* introduces the advanced methods of flight contr Electronic Governance with Emerging Technologies Fernando Ortiz-Rodriguez, Sanju Tiwari, Adila Alfa Krisnadhi, Jose Melchor Medina-Quintero, David Valle-Cruz, 2024-12-24 This book constitutes the refereed proceedings of the Third International Conference on Electronic Governance with Emerging Technologies EGETC 2024 held in Jakarta Indonesia during September 25 26 2024 The 16 full papers and 1 short paper presented in this book were reviewed and selected from 50 submissions This volume discusses the latest scientific results and technological innovations related to emerging technologies that support electronic governance It serves as a forum for academics scholars and practitioners from academia and industry to share and exchange recent developments in the domain of e government and e governance of digital organizations Additionally it aims to highlight emerging research trends and their applications **Refined Safety Control of Unmanned Flight Vehicles via Fractional-Order Calculus** Ziquan Yu, Youmin Zhang, Bin Jiang, Chun-Yi Su, 2023-02-03 The monograph explores the safety of unmanned flight vehicles via the corresponding fault tolerant control design methods The authors analyse the safety control issues of unmanned flight vehicles which include finite time recovery against faults concurrence of actuator faults and sensor faults concurrence of actuator faults and wind effects and faults encountered by a portion of unmanned flight vehicles in a distributed communication network In addition the commonly used simple but effective proportional integral derivative structure is also incorporated into the safety control design for unmanned flight vehicles By using the fractional order calculus the developed safety control results are able to ensure flight safety and achieve the refined performance adjustments against faults and wind effects The book will be of interest to 3rd 4th year undergraduate students postgraduate and graduate students researchers academic staff engineers of aircraft and unmanned flight vehicles Unmanned Aircraft Design Mohammad Sadraey, 2022-05-31 This book provides fundamental principles design procedures and design tools for unmanned aerial vehicles UAVs with three sections focusing on vehicle design autopilot design and ground system design The design of manned aircraft and the design of UAVs have some similarities and some differences They include the design process constraints e g g load pressurization and UAV main components autopilot ground station communication sensors and payload A UAV designer must be aware of the latest UAV developments current technologies know lessons learned from past failures and they should appreciate the breadth of UAV design options The contribution of unmanned aircraft continues to expand every day and over 20 countries are developing and employing UAVs for both military and scientific purposes A UAV system is much more than a reusable air vehicle or vehicles UAVs are air vehicles they fly like airplanes and operate in an airplane

environment They are designed like air vehicles they have to meet flight critical air vehicle requirements A designer needs to know how to integrate complex multi disciplinary systems and to understand the environment the requirements and the design challenges and this book is an excellent overview of the fundamentals from an engineering perspective This book is meant to meet the needs of newcomers into the world of UAVs The materials are intended to provide enough information in each area and illustrate how they all play together to support the design of a complete UAV Therefore this book can be used both as a reference for engineers entering the field or as a supplementary text for a UAV design course to provide system level context for each specialized topic

Advances on Smart and Soft Computing Faisal Saeed,Tawfik Al-Hadhrani,Fathey Mohammed,Errais Mohammed,2020-10-19 This book gathers high quality papers presented at the First International Conference of Advanced Computing and Informatics ICACIn 2020 held in Casablanca Morocco on April 12 13 2020 It covers a range of topics including artificial intelligence technologies and applications big data analytics smart computing smart cities Internet of things IoT data communication cloud computing machine learning algorithms data stream management and analytics deep learning data mining applications information retrieval cloud computing platforms parallel processing natural language processing predictive analytics knowledge management approaches information security security in IoT big data and cloud computing high performance computing and computational informatics

Intelligent Autonomy of UAVs Yasmina Bestaoui Sebbane,2018-03-14 Intelligent Autonomy of UAVs Advanced Missions and Future Use provides an approach to the formulation of the fundamental task typical to any mission and provides guidelines of how this task can be solved by different generic robotic problems As such this book aims to provide a systems engineering approach to UAV projects discovering the real problems that need to be resolved independently of the application After an introduction to the rapidly evolving field of aerial robotics the book presents topics such as autonomy mission analysis human UAV teams homogeneous and heterogeneous UAV teams and finally UAV UGV teams It then covers generic robotic problems such as orienteering and coverage The book next introduces deployment patrolling and foraging while the last part of the book tackles an important application aerial search tracking and surveillance This book is meant for both scientists and practitioners For practitioners it presents existing solutions that are categorized according to various missions surveillance and reconnaissance 3D mapping urban monitoring precision agriculture forestry disaster assessment and monitoring security industrial plant inspection etc For scientists it provides an overview of generic robotic problems such as coverage and orienteering deployment patrolling and foraging search tracking and surveillance The design and analysis of algorithms raise a unique combination of questions from many fields including robotics operational research control theory and computer science

Intelligent Robotics Systems: Inspiring the NEXT Kairuddin Omar,Md. Jan Nordin,Prahlad Vadakkepat,Anton Satria Prabuwoon,Siti Norul Huda Sheikh Abdullah,Jacky Baltes,Shamsudin Mohd Amin,Wan Zuha Wan Hassan,Mohammad Faidzul Nasrudin,2013-08-16 This book constitutes the refereed proceedings of the 16th FIRA Robo World Congress FIRA 2013 held in Kuala Lumpur Malaysia

in August 2013 The congress consisted of the following three conferences 5th International Conference on Advanced Humanoid Robotics Research ICAHRR 5th International Conference on Education and Entertainment Robotics ICEER and 4th International Robotics Education Forum IREF The 38 revised full papers presented were carefully reviewed and selected from 112 submissions They cover various topics related to the technical developments and achievements in the field of robotics

Planning and Decision Making for Aerial Robots Yasmina Bestaoui Sebbane, 2014-01-10 This book provides an introduction to the emerging field of planning and decision making for aerial robots An aerial robot is the ultimate form of Unmanned Aerial Vehicle an aircraft endowed with built in intelligence requiring no direct human control and able to perform a specific task It must be able to fly within a partially structured environment to react and adapt to changing environmental conditions and to accommodate for the uncertainty that exists in the physical world An aerial robot can be termed as a physical agent that exists and flies in the real 3D world can sense its environment and act on it to achieve specific goals So throughout this book an aerial robot will also be termed as an agent Fundamental problems in aerial robotics include the tasks of spatial motion spatial sensing and spatial reasoning Reasoning in complex environments represents a difficult problem The issues specific to spatial reasoning are planning and decision making Planning deals with the trajectory algorithmic development based on the available information while decision making determines priorities and evaluates potential environmental uncertainties The issues specific to planning and decision making for aerial robots in their environment are examined in this book and categorized as follows motion planning deterministic decision making decision making under uncertainty and finally multi robot planning A variety of techniques are presented in this book and a number of relevant case studies are examined The topics considered in this book are multidisciplinary in nature and lie at the intersection of Robotics Control Theory Operational Research and Artificial Intelligence

Intelligent Robotics and Applications Caihua Xiong, Yongan Huang, Youlun Xiong, 2008-10-14 This two volumes constitute the refereed proceedings of the First International Conference on Intelligent Robotics and Applications ICIRA 2008 held in Wuhan China in October 2008 The 265 revised full papers presented were thoroughly reviewed and selected from 552 submissions they are devoted but not limited to robot motion planning and manipulation robot control cognitive robotics rehabilitation robotics health care and artificial limb robot learning robot vision human machine interaction mobile robotics micro nano mechanical systems manufacturing automation multi axis surface machining realworld applications

Unmanned Aerial Systems Anis Koubaa, Ahmad Taher Azar, 2021-01-21 Unmanned Aerial Systems Theoretical Foundation and Applications presents some of the latest innovative approaches to drones from the point of view of dynamic modeling system analysis optimization control communications 3D mapping search and rescue surveillance farmland and construction monitoring and more With the emergence of low cost UAS a vast array of research works in academia and products in the industrial sectors have evolved The book covers the safe operation of UAS including but not limited to fundamental design mission and path planning control

theory computer vision artificial intelligence applications requirements and more This book provides a unique reference of the state of the art research and development of unmanned aerial systems making it an essential resource for researchers instructors and practitioners Covers some of the most innovative approaches to drones Provides the latest state of the art research and development surrounding unmanned aerial systems Presents a comprehensive reference on unmanned aerial systems with a focus on cutting edge technologies and recent research trends in the area

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