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Yanwen Wu

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Conceptual Modeling João Paulo A. Almeida, José Borbinha, Giancarlo Guizzardi, Sebastian Link, Jelena Zdravkovic, 2023-10-28 This book constitutes the refereed proceedings of the 42nd International Conference on Conceptual Modeling ER 2023 held in Lisbon Portugal during November 6 9 2023 The 21 full papers were carefully reviewed and selected from 121 submissions Additionally the book contains 4 keynote speeches and 3 tutorials and one invited paper corresponding to one of the keynote speeches The papers cover a broad spectrum of classical and modern topics on conceptual modeling including research and practice in the theories of concepts and ontologies techniques for transforming conceptual models into effective implementations and methods and tools for developing and communicating conceptual Software Engineering and Knowledge Engineering: Theory and Practice Yanwen Wu,2012-01-15 The volume models includes a set of selected papers extended and revised from the I2009 Pacific Asia Conference on Knowledge Engineering and Software Engineering KESE 2009 was held on December 19 20 2009 Shenzhen China Volume 1 is to provide a forum for researchers educators engineers and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields 140 high quality papers are included in the volume Each paper has been peer reviewed by at least 2 program committee members and selected by the volume editor Prof Yanwen Wu On behalf of this volume we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering **Unmanned Aircraft Systems** Ella Atkins, Anibal Ollero, Antonios Tsourdos, 2017-01-17 UNMANNED AIRCRAF T SYSTEMS UNMANNED AIRCRAF T SYSTEMS An unmanned aircraft system UAS sometimes called a drone is an aircraft without a human pilot on board instead the UAS can be controlled by an operator station on the ground or may be autonomous in operation UAS are capable of addressing a broad range of applications in diverse complex environments Traditionally employed in mainly military applications recent regulatory changes around the world are leading to an explosion of interest and wide ranging new applications for UAS in civil airspace Covering the design development operation and mission profiles of unmanned aircraft systems this single comprehensive volume forms a complete stand alone reference on the topic The volume integrates with the online Wiley Encyclopedia of Aerospace Engineering providing many new and updated articles for existing subscribers to that work The chapters cover the following items Airframe configurations and design launch systems power generation propulsion Operations missions integration issues and airspace access Coordination multivehicle cooperation and human oversight With contributions from leading experts this volume is intended to be a valuable addition and a useful resource for aerospace manufacturers and suppliers governmental and industrial aerospace research establishments airline and aviation industries university engineering and science departments and industry analysts consultants and researchers 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 Systems Modeling and Simulation Koji Koyamada, Shinsuke Tamura, Osama Ono, 2007-07-05 The Asia Simulation Conference 2006 JSST 2006 was aimed at exploring challenges in methodologies for modeling control and computation in simu lation and their applications in social economic and financial fields as well as established scientific and engineering solutions The conference was held in Tokyo from October 30 to November 1 2006 and included keynote speeches presented by technology and industry leaders technical sessions organized sessions poster sessions and vendor exhibits It was the seventh annual international conference on system simulation and scientific computing which is organized by the Japan Society for Simulation Technology JSST the Chi nese Association for System Simulation CASS and the Korea Society for Simulation KSS For the conference all submitted papers were refereed by the international technical program committee each paper receiving at least two independent reviews After careful reviews by the committee 65 papers from 143 submis sions were selected for oral presentation. This volume includes the keynote speakers papers along with the papers presented at the oral sessions and the organized sessions As a result we are publishing 87 papers for the conference in this volume In addition to the scientific tracts presented the conference featured keynote presentations by five invited speakers We are grateful to them for accepting our invitation and for their presentations We also would like to express our gratitude to all contributors reviewers technical program conmittee members and organizing committee members who made the conference very successful **UAV Sensors for Environmental Monitoring** Felipe Gonzalez Toro, Antonios Tsourdos, 2018-03-05 This book is a printed edition of the Special Issue UAV Sensors for Environmental Monitoring that was published in Sensors Frontier Computing Jia-Wei Chang, Neil Yen, Jason C. Hung, 2022-01-01 This book gathers the proceedings of the 10th International Conference on Frontier Computing held in Singapore on July 10 13 2020 and provides comprehensive coverage of the latest advances and trends in information technology science and engineering It addresses a number of broad themes including communication networks business intelligence and knowledge management web intelligence and related fields that inspire the development of information technology The respective contributions cover a wide range of topics database and data mining networking

and communications web and Internet of things embedded systems soft computing social network analysis security and privacy optical communication and ubiquitous pervasive computing Many of the papers outline promising future research directions and the book benefits students researchers and professionals alike Further it offers a useful reference quide for Mastering Drone design and programming Cybellium, Unleash Creativity and Innovation in newcomers to the field Drone Technology In the realm of aviation and technology drones have emerged as revolutionary tools with endless possibilities Mastering Drone Design and Programming is your comprehensive guide to understanding and harnessing the potential of these aerial vehicles empowering you to create customized drones that push the boundaries of innovation and redefine industries About the Book As drone technology evolves the ability to design and program drones becomes increasingly vital Mastering Drone Design and Programming offers an in depth exploration of this dynamic field an essential toolkit for engineers enthusiasts and innovators This book caters to both newcomers and experienced learners aiming to excel in drone design customization and programming Key Features Drone Fundamentals Begin by understanding the core principles of drone technology Learn about components aerodynamics and flight dynamics that shape drone design Custom Drone Design Dive into custom drone design techniques Explore methods for selecting components assembling frames and ensuring stability and aerodynamics Programming Basics Grasp the art of drone programming Understand how to write and upload code for flight control sensors and autonomous navigation Sensors and Telemetry Explore sensors and telemetry systems for drones Learn how to integrate GPS accelerometers gyroscopes and cameras for accurate data collection Autonomous Flight Understand the significance of autonomous flight Learn how to program drones to perform tasks such as waypoint navigation object detection and more Remote Control and Communication Delve into remote control and communication systems Explore techniques for implementing remote control interfaces and transmitting data Drone Applications Grasp real world applications of drone technology From aerial photography to agriculture discover the diverse applications of customized drones Safety and Regulations Gain insights into drone safety and regulations Learn how to navigate legal requirements and ensure safe drone operations Why This Book Matters In an era of innovation and exploration mastering drone design and programming offers a competitive edge Mastering Drone Design and Programming empowers engineers enthusiasts and technology innovators to leverage this dynamic technology enabling them to create customized drones that redefine industries and drive progress Push the Boundaries of Aerial Innovation In the landscape of aviation and technology drones are transforming industries and possibilities Mastering Drone Design and Programming equips you with the knowledge needed to leverage drone technology enabling you to create customized aerial vehicles that redefine innovation and open doors to new horizons Whether you re a seasoned drone enthusiast or new to the world of drone design this book will guide you in building a solid foundation for effective drone customization and programming Your journey to mastering drone design and programming starts here 2023 Cybellium Ltd All rights reserved www cybellium com Neural Information Processing Biao Luo, Long Cheng, Zheng-Guang Wu, Hongyi Li, Chaojie Li, 2023-11-14 The six volume set LNCS 14447 until 14452 constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing ICONIP 2023 held in Changsha China in November 2023 The 652 papers presented in the proceedings set were carefully reviewed and selected from 1274 submissions They focus on theory and algorithms cognitive neurosciences human centred computing applications in neuroscience neural networks deep learning and related fields **Intelligent Robotics** and Applications Haibin Yu, Jinguo Liu, Lianging Liu, Zhaojie Ju, Yuwang Liu, Dalin Zhou, 2019-08-02 The volume set LNAI 11740 until LNAI 11745 constitutes the proceedings of the 12th International Conference on Intelligent Robotics and Applications ICIRA 2019 held in Shenyang China in August 2019 The total of 378 full and 25 short papers presented in these proceedings was carefully reviewed and selected from 522 submissions. The papers are organized in topical sections as follows Part I collective and social robots human biomechanics and human centered robotics robotics for cell manipulation and characterization field robots compliant mechanisms robotic grasping and manipulation with incomplete information and strong disturbance human centered robotics development of high performance joint drive for robots modular robots and other mechatronic systems compliant manipulation learning and control for lightweight robot Part II power assisted system and control bio inspired wall climbing robot underwater acoustic and optical signal processing for environmental cognition piezoelectric actuators and micro nano manipulations robot vision and scene understanding visual and motional learning in robotics signal processing and underwater bionic robots soft locomotion robot teleoperation robot autonomous control of unmanned aircraft systems Part III marine bio inspired robotics and soft robotics materials mechanisms modelling and control robot intelligence technologies and system integration continuum mechanisms and robots unmanned underwater vehicles intelligent robots for environment detection or fine manipulation parallel robotics human robot collaboration swarm intelligence and multi robot cooperation adaptive and learning control system wearable and assistive devices and robots for healthcare nonlinear systems and control Part IV swarm intelligence unmanned system computational intelligence inspired robot navigation and SLAM fuzzy modelling for automation control and robotics development of ultra thin film flexible sensors and tactile sensation robotic technology for deep space exploration wearable sensing based limb motor function rehabilitation pattern recognition and machine learning navigation localization Part V robot legged locomotion advanced measurement and machine vision system man machine interactions fault detection testing and diagnosis estimation and identification mobile robots and intelligent autonomous systems robotic vision recognition and reconstruction robot mechanism and design Part VI robot motion analysis and planning robot design development and control medical robot robot intelligence learning and linguistics motion control computer integrated manufacturing robot cooperation virtual and augmented reality education in mechatronics engineering robotic drilling and sampling technology automotive systems mechatronics in energy systems human robot interaction **Operations Research for Unmanned Systems** Jeffrey R.

Cares, John O. Dickmann, Jr., 2016-03-04 The first edited volume addressing analysis for unmanned vehicles with focus on operations research rather than engineering The editors have a unique combination of extensive operational experience and technical expertise Chapters address a wide ranging set of examples domains and applications Accessible to a general readership and also informative for experts Advances in Service and Industrial Robotics Carlo Ferraresi, Giuseppe Quaglia, 2017-07-24 This volume contains the proceedings of the 26th International Conference on Robotics in Alpe Adria Danube Region RAAD 2017 held at the Polytechnic University of Turin Italy from June 21 23 2017 The conference brought together academic and industrial researchers in robotics from 30 countries the majority of them affiliated to the Alpe Adria Danube Region and their worldwide partners RAAD 2017 covered all major areas of R D and innovation in robotics including the latest research trends The book provides an overview on the advances in service and industrial robotics The topics are presented in a sequence starting from the classical robotic subjects such as kinematics dynamics structures control and ending with the newest topics like human robot interaction and biomedical applications Researchers involved in the robotic field will find this an extraordinary and up to date perspective on the state of the art in this area 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 Robot Intelligence Technology and Applications 7 Jun Jo, Han-Lim Choi, Marde Helbig, Hyondong Oh, Jemin Hwangbo, Chang-Hun Lee, Bela Stantic, 2023-02-28 We are starting to enter a post COVID 19 life While this pandemic has made everyone s life challenging it also expedited the transition of our everyday lives into a new form often called The New Normal Although many people often use the terminology perhaps we still do not have consensus about what it is and what it should be like However one thing that is clear namely that robotics and artificial intelligence technologies are playing a

critical role in this transition phase of our everyday lives We saw the emergence of last mile delivery robots on the street AI embedded service robots in restaurants uninhabited shops non face to face medical services conferences and talks in metaverses and AI based online education programs This book is an edition that aims at serving researchers and practitioners in related fields with a timely dissemination of the recent progress in the areas of robotics and artificial intelligence This book is based on a collection of papers presented at the 10th International Conference on Robot Intelligence Technology and Applications RiTA held at Griffith University in the Gold Coast Queensland Australia The conference was held in a hybrid format on December 7 9 2022 with the main theme Artificial Agile Acute Robot Intelligence For better readability the total of 41 papers are grouped into five chapters Chapter I Motion Planning and Control Chapter II Vision and Image Processing Chapter III Unmanned Aerial Vehicles and Autonomous Vehicles Chapter IV Learning and Classification and Chapter V Environmental and Societal Robotic Applications The articles were accepted through a rigorous peer review process and presented at the RiTA 2022 conference Also they were updated and final versions of the manuscripts were produced after in depth discussions during the conference We would like to thank all the authors and editors for contributing Fundamentals of Capturing and Processing Drone Imagery and Data Amy Frazier, Kunwar to this edition Singh, 2021-07-27 Unmanned aircraft systems UAS are rapidly emerging as flexible platforms for capturing imagery and other data across the sciences Many colleges and universities are developing courses on UAS based data acquisition Fundamentals of Capturing and Processing Drone Imagery and Data is a comprehensive introductory text on how to use unmanned aircraft systems for data capture and analysis It provides best practices for planning data capture missions and hands on learning modules geared toward UAS data collection processing and applications FEATURES Lays out a step by step approach to identify relevant tools and methods for UAS data image acquisition and processing Provides practical hands on knowledge with visual interpretation well organized and designed for a typical 16 week UAS course offered on college and university campuses Suitable for all levels of readers and does not require prior knowledge of UAS remote sensing digital image processing or geospatial analytics Includes real world environmental applications along with data interpretations and software used exercises in chapters 8 through 19 have support materials for free download Combines the expertise of a wide range of UAS researchers and practitioners across the geospatial sciences This book provides a general introduction to drones along with a series of hands on exercises that students and researchers can engage with to learn to integrate drone data into real world applications No prior background in remote sensing GIS or drone knowledge is needed to use this book Readers will learn to process different types of UAS imagery for applications such as precision agriculture forestry urban landscapes and apply this knowledge in environmental monitoring and land use studies **Development and Future of** Internet of Drones (IoD): Insights, Trends and Road Ahead Rajalakshmi Krishnamurthi, Anand Nayyar, Aboul Ella Hassanien, 2021-02-15 This book provides a clear insight about IoD and its requirements protocols performance improvement

evaluation methods and challenging aspects to the readers at one place. The recent enhancement of integrating drone with the Internet of things IoT technology promises tremendous global development The top applications of the Internet of Drones IoD are expected to be infrastructure building monitoring fire service systems insurance investigations retail fulfilment agriculture and forensic evidence collections Conventional drone technology is enhanced with the Internet and other emerging technologies such as cloud computing big data artificial intelligence and communication networks which open up for enormous opportunities like ahead for on demand service oriented and user friendly IoD applications This book presents extensive knowledge about the role of IoT and emerging technology in drone networks It focuses on major research areas of the Internet of Drones and its related applications It provides a strong knowledge platform towards the Internet of Drones for graduates researchers data scientists educators and drone hobbyists The Good Drone Kristin Sandvik, Maria Jumbert, 2016-08-25 While the military use of drones has been the subject of much scrutiny the use of drones for humanitarian purposes has so far received little attention As the starting point for this study it is argued that the prospect of using drones for humanitarian and other life saving activities has produced an alternative discourse on drones dedicated to developing and publicizing the endless possibilities that drones have for doing good Furthermore it is suggested that the Good Drone narrative has been appropriated back into the drone warfare discourse as a strategy to make war more human This book explores the role of the Good Drone as an organizing narrative for political projects technology development and humanitarian action Its contribution to the debate is to take stock of the multiple logics and rationales according to which drones are good with a primary objective to initiate a critical conversation about the political currency of good This study recognizes the many possibilities for the use of drones and takes these possibilities seriously by critically examining the difference the drones functionalities can make but also what difference the presence of drones themselves as unmanned and flying objects make Discussed and analysed are the implications for the drone industry user communities and the areas of crisis where drones are deployed Computational Collective Intelligence Manuel Núñez, Ngoc Thanh Nguyen, David Camacho, Bogdan Trawiński, 2015-09-09 This two volume set LNAI 9329 and LNAI 9330 constitutes the refereed proceedings of the 7th International Conference on Collective Intelligence ICCCI 2014 held in Madrid Spain in September 2015 The 110 full papers presented were carefully reviewed and selected from 186 submissions. They are organized in topical sections such as multi agent systems social networks and NLP sentiment analysis computational intelligence and games ontologies and information extraction formal methods and simulation neural networks SMT and MIS collective intelligence in Web systems Web systems analysis computational swarm intelligence cooperative strategies for decision making and optimization advanced networking and security technologies IT in biomedicine collective computational intelligence in educational context science intelligence and data analysis computational intelligence in financial markets ensemble learning big data mining and searching AI, Cybersecurity and Data Science for Drone and Unmanned Aerial Vehicles Shishir Kumar

Shandilya,Fernando Ortiz-Rodriguez,Smita Shandilya,Gerardo Romero,2025-09-09 This book explores the transformative impact of drone technology and unmanned aerial systems UAS across diverse industries from precision agriculture and logistics to disaster response and forensic investigations It highlights how the integration of Artificial Intelligence AI into UAVs is addressing contemporary challenges optimizing operations and shaping the future of aerial systems It offers technical methodologies case studies and a detailed roadmap for integrated drone forensics making it an essential resource for understanding the dynamic sector of Intelligent Aerial Systems Examines the integration of AI in drones and UAS enhancing operational efficiency and investigative processes Covers the evolving landscape of drone technology including swarms autonomous systems and forensic methodologies Focuses on specific sectors such as agriculture logistics and disaster response offering practical insights real life examples and future scenarios Explores the role of drones in delivery and logistics transforming transportation systems by improving efficiency and reducing costs Explains the use of drones for public safety smart city disaster response and forensic investigations providing critical insights for emergency operations. This reference book serves as a comprehensive guide for professionals researchers and scholars interested in the rapidly advancing world of drone technology. Towards sustainable urban development: Use of geographic big data for spatial planning Ying Jing, Jiaxing Cui, Yiyun Chen, Ding Ma, 2023-06-01

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