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Unmanned Aerial Vehicles and Multidisciplinary Applications Using AI Techniques

Recent Advances in Machine Design

Advances in Systems, Control and Automations

HSMV 2023

Sustainable Energy and Technological Advancements

ICSEDTI 2022

Domesticating Drones

New Trends in Software Methodologies, Tools and Techniques

8th EASN-CEAS Workshop on Manufacturing for Growth and Innovation

Intelligent Techniques and Applications in Science and Technology

South African Automotive Light Vehicle Level 4

Agricultural Informatics

Laser Propulsion in Space

Optimizing Small Multi-Rotor Unmanned Aircraft

Advanced Robotic Vehicles Programming

Motors for Makers
Automation 2019
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A First Course in Aerial Robots and Drones
Making Fast Electric Model Power Boats
Fundamentals of Drone Technology
Thin Film Processes
Computer Aided Systems Theory – EUROCAST 2017
Smart Agriculture for Developing Nations
Wireless Ad-hoc and Sensor Networks
Innovative Technologies in Intelligent Systems and Industrial Applications
Introduction to Multicopter Design and Control
International Conference on Artificial Intelligence for Smart Community
Astro-Imaging Projects for Amateur Astronomers
Designing Embedded Systems with Arduino
The R/C Car Bible
Multicopter Design and Control Practice
Quad Rotorcraft Control
Proceedings of the International Conference on Advanced Mechanical Engineering,

Automation, and Sustainable Development 2021 (AMAS2021)
The Complete Guide to Drones Extended 2nd Edition
Intelligent Manufacturing & Mechatronics
Best of Make: Volume 2
Practical Arduino Robotics

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Unmanned Aerial Vehicles and Multidisciplinary Applications Using AI Techniques IOS Press

This book comprises select proceedings of the international conference ETAEERE 2020. This volume covers latest research in advanced approaches in automation, control based devices, and adaptive learning mechanisms. The contents discuss the complex operations and

behaviors of different systems or machines in different environments. Some of the areas covered include control of linear and nonlinear systems, intelligent systems, stochastic control, knowledge-based systems applications, fault diagnosis and tolerant control, and real-time control applications. The contents of this volume can be useful for researchers as well as professionals working in control and automation.

Recent Advances in Machine Design

Authors Click Publishing

If you think you need a boarding pass to

fly, you're really missing out... Today, drones are everywhere. From film studios to farms, they're in the hands of photographers, commercial surveyors and racers alike. This fully illustrated book explains how drones developed, where they're going and which one you should choose. It even includes complete instructions to build both a simple drone and a super-fast FPV racer yourself. Whether you're flying indoors or out, buying or building, this book covers everything: | Understand the Jargon Flying has a lot of unfamiliar terminology, but this book will make it easy to master. | Business or Pleasure Every type of multicopter you might want is introduced, including explanations of which is best suited for what role. | Get the Best Pictures This

edition includes an extended guide to the tech and composition tricks you can use to make your pictures stand out of the pack. | Get the Best Video A new shot-guide shows you how to get the most engaging aerial video, whatever your drone. | Be a Winning FPV Racer There are two complete step-by-step instructions for building your own drones inside: an FPV racer, or a surprisingly cheap wooden drone - both great projects. Following the worldwide success of the first edition, which has been translated into numerous languages, this second edition is not only fully updated to keep pace with the laws and technology, but also extended to thoroughly cover the fast-growing new sport of FPV drone racing, while still including a comprehensive guide to

learning to fly any drone.

Advances in Systems, Control and Automations Springer Nature

This design guide was written to capture the author's practical experience of designing, building and testing multi-rotor drone systems over the past decade. The lack of one single source of useful information meant that the past 10 years has been a steep learning curve, a lot of self-tuition and many trial and error tests. Lessons learnt the hard way are not always the best way to learn. This book will be useful for the amateur drone pilot who wants to build their own system from first principles, as well as the academic researcher investigating novel design concepts and future drone applications.
HSMV 2023 Elsevier

Software has become an essential enabler for science and the economy. Not only does it create new markets and the possibility of a more reliable, flexible and robust society, it also empowers our exploration of the world in ever increasing depth. However software often falls short of our expectations, with current methodologies, tools and techniques remaining insufficiently robust and reliable for constantly changing and evolving needs. This book presents papers from the 15th International Conference on New Trends in Intelligent Software Methodology Tools and Techniques (SoMeT 16), held in Larnaca, Cyprus, in September 2016. The SoMeT conference focuses on exploring the innovations, controversies and challenges facing the software

engineering community, bringing together theory and experience to propose and evaluate solutions to software engineering problems with an emphasis on human-centric software methodologies, end-user development techniques, and emotional reasoning, for an optimally harmonized performance between the design tool and the user. The book is divided into six chapters covering the following areas: decision support systems; software methodologies and tools; requirement engineering; software for biomedicine and bioinformatics; software engineering models, and formal techniques for software representation; and intelligent software development and social networking. The book explores new trends and theories which illuminate the

direction of developments in the field, and will be of interest to all in the software science community.

Sustainable Energy and Technological Advancements

Springer

The book Thin Film Processes - Artifacts on Surface Phenomena and Technological Facets presents topics on global advancements in theoretical and experimental facts, instrumentation and practical applications of thin-film material perspectives and its applications. The aspect of this book is associated with the thin-film physics, the methods of deposition, optimization parameters and its wide technological applications. This book is divided into three main sections: Thin Film Deposition Methods: A Synthesis

Perspective; Optimization Parameters in the Thin Film Science and Application of Thin Films: A Synergistic Outlook. Collected chapters provide applicable knowledge for a wide range of readers: common men, students and researchers. It was constructed by experts in diverse fields of thin-film science and technology from over 15 research institutes across the globe.

ICSEDTI 2022 Apress

This book is the first textbook specially on multicopter systems in the world. It provides a comprehensive overview of multicopter systems, rather than focusing on a single method or technique. The fifteen chapters are divided into five parts, covering the topics of multicopter design, modeling, state estimation, control, and decision-

making. It differs from other books in the field in three major respects: it is basic and practical, offering self-contained content and presenting hands-on methods; it is comprehensive and systematic; and it is timely. It is also closely related to the autopilot that users often employ today and provides insights into the code employed. As such, it offers a valuable resource for anyone interested in multicopters, including students, teachers, researchers, and engineers. This introductory text is a welcome addition to the literature on multicopter design and control, on which the author is an acknowledged authority. The book is directed to advanced undergraduate and beginning graduate students in aeronautical and control (or electrical)

engineering, as well as to multicopter designers and hobbyists. ----- Professor W. Murray Wonham, University of Toronto "This is the single best introduction to multicopter control. Clear, comprehensive and progressing from basic principles to advanced techniques, it's a must read for anyone hoping to learn how to design flying robots." ----- Chris Anderson, 3D Robotics CEO.

Domesticating Drones Springer

Nature

This book presents the proceedings of the 7th International Conference on Innovative Technologies in Intelligent Systems & Industrial Application (CITISIA), held in virtual mode in Kuala Lumpur, Malaysia, and Sydney, Australia on November 16-18, 2022. It showcases

advances and innovations in Industry 4.0, smart society 5.0, mobile technologies, smart manufacturing, smart data fusion, hybrid intelligence, cloud computing, and digital society. *New Trends in Software Methodologies, Tools and Techniques* John Wiley & Sons The book presents theoretical and experimental approaches, quantitative and qualitative analyses, and simulations in wireless ad-hoc and sensor networks. It further explains the power and routing optimization in underwater sensor networks, advanced cross-layer framework, challenges and security issues in underwater sensor networks, and the use of machine learning and deep learning techniques for security implementations in wireless ad-hoc and sensor networks. This book:

Discusses mobile ad-hoc network routing issues and challenges with node mobility and resource limitations Covers the internet of vehicles, autonomous vehicle architecture, and design of heterogeneous wireless sensor networks Presents various technologies of ad-hoc networks, use of machine learning, and deep learning techniques in wireless sensor networks Illustrates recent advancements in security mechanisms for information dissemination in mobile ad-hoc networks, vehicular ad-hoc networks, flying ad-hoc networks, and autonomous vehicles Highlights mathematical modeling and analysis of routing protocols for ad-hoc networks and underwater sensor networks It is primarily written for undergraduate and graduate students, researchers, and

academicians in the fields of computer science and engineering, information technology, electrical engineering, and electronics and communications engineering.

8th EASN-CEAS Workshop on Manufacturing for Growth and Innovation
Springer

Space launches have evoked the same vivid image for decades: bright orange flames exploding beneath a rocket as it lifts off and thunders into the sky. An alternative acceleration system could reshape that vision forever, with rockets leaving their energy source on the ground... or in space. *Laser Propulsion in Space: Fundamentals, Technology, and Future Missions* takes readers on a comprehensive journey from the theoretical overview of propulsion

fundamentals, to reviews of current projects involving high-power CW fiber lasers and energetic mm-wave sources with their ongoing and potential end-use applications in beamed energy propulsion (BEP). Written by experts in the field, this mathematically sound reference text also highlights graphical solutions of equations' results, as well as case studies with worked-out examples, making this book an invaluable compendium for students, researchers, technology developers and futurists in understanding the promise and challenges of this emerging technology.

- Covers beamed energy propulsion advances
- Highlights state-of-the-art BEP applications of LEO debris removal, suborbital and orbital launch, solar system exploration, and interstellar

lightsail probes, as well as advances in related photon source technologies and infrastructures - Includes opinion sections explaining why we as a technical society should care about each chapter's topic and the considerably good outcomes that can be achieved with laser engines - Is accompanied by a website with video clips and other ancillary materials to enhance insight

Intelligent Techniques and Applications in Science and Technology Springer

Applied Computer Sciences in Engineering Springer Nature Sustainable Energy and Technological Advancements Springer Nature

South African Automotive Light Vehicle Level 4 MDPI

Despite the increasing population (the

Food and Agriculture Organization of the United Nations estimates 70% more food will be needed in 2050 than was produced in 2006), issues related to food production have yet to be completely addressed. In recent years, Internet of Things technology has begun to be used to address different industrial and technical challenges to meet this growing need. These Agro-IoT tools boost productivity and minimize the pitfalls of traditional farming, which is the backbone of the world's economy. Aided by the IoT, continuous monitoring of fields provides useful and critical information to farmers, ushering in a new era in farming. The IoT can be used as a tool to combat climate change through greenhouse automation; monitor and manage water, soil and

crops; increase productivity; control insecticides/pesticides; detect plant diseases; increase the rate of crop sales; cattle monitoring etc. Agricultural Informatics: Automation Using the IoT and Machine Learning focuses on all these topics, including a few case studies, and they give a clear indication as to why these techniques should now be widely adopted by the agriculture and farming industries.

[Agricultural Informatics](#) Springer Nature Fundamentals of Drone Technology" provides a comprehensive introduction to the rapidly evolving field of Drone Technology. This textbook covers the essential principles of drone technology, including their design, operation, and applications. It begins with an overview of different types of drones—such as

fixed-wing, multi-rotor, single-rotor, and hybrid models—highlighting their unique features and uses in various industries. The book delves into the core components of drones, including frames, motors, electronic speed controllers, flight controllers, and sensors, explaining their functions and how they work together to ensure efficient flight. It also addresses the regulatory landscape, particularly focusing on the rules and guidelines established by aviation authorities like the DGCA, to ensure safe and legal drone operations. Practical sections on assembling and calibrating drones provide readers with hands-on knowledge essential for both hobbyists and professionals. Additionally, the textbook explores advanced topics such as drone sensors, payloads, and the

principles of flight, making it an invaluable resource for understanding the intricacies of modern drone technology. Overall, "Fundamentals of Drone Technology" serves as a foundational guide for anyone interested in the technical and regulatory aspects of UAVs.

Laser Propulsion in Space Jones & Bartlett Learning

This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem. Innovation is the successful exploitation of a new idea. Through innovation, we can achieve MORE while using LESS. Innovations in science & technology will not only help mankind as a whole, but also contribute to the economic growth of individual

countries. It is essential that the global problem of environmental degradation be addressed immediately, and thus, we need to rethink the concept of sustainable development. Indeed, new environmentally friendly technologies are fundamental to attaining sustainable development. The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment, and how to establish a more resource-efficient and sustainable society. The book provides an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing & optimization for scientific & technological development, smart information, communication, bio-monitoring, smart cities, food quality

assessment, waste management, environmental aspects, alternative energies, sustainable infrastructure development, etc. In short, it offers valuable information and insights for budding engineers, researchers, upcoming young minds and industry professionals, promoting awareness for recent advances in the various fields mentioned above.

Optimizing Small Multi-Rotor Unmanned Aircraft Springer Nature

This book contains selected papers presented at the First International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2021), which was organized by the Department of Electrical Engineering, NIT Meghalaya, Shillong, India, during September 24–25, 2021. The topics

covered in the book mainly focuses on the cutting-edge research domain with respect to sustainable energy technologies, smart building, integration, and application of multiple energy sources; advanced power converter topologies and their modulation techniques; and information and communication technologies for smart microgrids.

Springer Nature

This book focuses on the emerging advances in distributed communication systems, big data, intelligent computing and Internet of Things, presenting state-of-the-art research in frameworks, algorithms, methodologies, techniques and applications associated with data engineering and wireless distributed communication technologies. In addition,

it discusses potential topics like performance analysis, wireless communication networks, data security and privacy, human computer interaction, 5G Networks, and smart automated systems, which will provide insights for the evolving data communication technologies. In a nutshell, this proceedings book compiles novel and high-quality research that offers innovative solutions for communications in IoT networks.

Advanced Robotic Vehicles Programming

European Alliance for Innovation

A First Course in Aerial Robots and Drones provides an accessible and student friendly introduction to aerial robots and drones. Drones figure prominently as opportunities for students to learn various aspects of

aerospace engineering and design. Drones offer an enticing entry point for STEM studies. As the use of drones in STEM studies grows, there is an emerging generation of drone pilots who are not just good at flying, but experts in specific niches, such as mapping or thermography. Key Features: Focuses on algorithms that are currently used to solve diverse problems. Enables students to solve problems and improve their science skills. Introduces difficult concepts with simple, accessible examples. Suitable for undergraduate students, this textbook provides students and other readers with methods for solving problems and improving their science skills.

Motors for Makers Que Publishing

This book presents the proceedings of

SympoSIMM 2018, the 1st edition of the Symposium on Intelligent Manufacturing and Mechatronics. With the theme of “Strengthening Innovations Towards Industry 4.0”, the book comprises the studies towards the particularity of Industry 4.0’s current trends. It is divided into five parts covering various scopes of manufacturing engineering and mechatronics stream, namely Intelligent Manufacturing, Robotics, Artificial Intelligence, Instrumentation, and Modelling and Simulation. It is hoped that this book will benefit the readers in embracing the new era of Industrial Revolution 4.0.

Automation 2019 CRC Press

This book consists of papers presented at AUTOMATION2019, an international conference held in Warsaw from March

27 to 29, 2019. It discusses the radical technological changes occurring due to the INDUSTRY 4.0. To follow these changes, both scientists and engineers have to face the challenge of interdisciplinary approach directed at the development of cyber-physical systems. This approach encompasses interdisciplinary theoretical knowledge, numerical modelling and simulation as well as application of artificial intelligence techniques. Both software and physical devices are composed into systems that will increase production efficiency and resource savings. The theoretical results, practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial

problems.

Applied Computer Sciences in Engineering Springer Nature

Unmanned aerial vehicles (UAVs) and artificial intelligence (AI) are gaining the attention of academic and industrial researchers due to the freedoms that UAVs afford when operating and monitoring activities remotely. Applying machine learning and deep learning techniques can result in fast and reliable outputs and have helped in real-time monitoring, data collection and processing, and prediction. UAVs utilizing these techniques can become instrumental tools for computer/wireless networks, smart cities, military applications, agricultural sectors, and mining. Unmanned Aerial Vehicles and Multidisciplinary Applications Using AI

Techniques is an essential reference source that covers pattern recognition, machine and deep learning-based methods, and other AI techniques and the impact they have when applied to different real-time applications of UAVs. It synthesizes the scope and importance of machine learning and deep learning models in enhancing UAV capabilities, solutions to problems, and numerous application areas. Covering topics such as vehicular surveillance systems, yield prediction, and human activity recognition, this premier reference source is a comprehensive resource for computer scientists; AI engineers; data scientists; agriculturalists; government officials; military leaders; business managers and leaders; students and faculty of higher education; academic

libraries; academicians; and researchers in computer science, computer vision, pattern recognition, imaging, and engineering.

Intelligent Data Communication Technologies and Internet of Things

Taylor & Francis

Fast electric model power boats have long outclassed other boat types in terms of speed, and racing them is becoming an ever-more popular pastime. Success in this exciting hobby relies not just on the skill of the boat's handler, but on the design and build of the boat as well. Illustrated with numerous photographs and diagrams showing technical details, this book looks at all aspects of building a model electric power boat, including How to choose a model and spot design flaws,

especially in moulded hulls, and how to repair many of those faults, Brushed and brushless motors, and their speed controllers, drive systems and propellers, Guidance on rechargeable cells and the correct chargers, and safety tips for lithium polymer cells, Tips on construction and how to set up a boat for racing, Detailed instructions for building a wooden three-point outrigger hydroplane and Radio systems, wiring and connectors. While the emphasis of this book is on performance for

competition use, beginners and recreational boaters are well catered for as many of the chapters start from first principles, rather than assuming a high level of initial competence. It covers all aspects of fast electric boating, from hull design right through to racing at world championships and setting speed records. Therefore, whether you are looking to compete or operate fast electric power boats as a hobby, it is a must-have addition to your library.

Best Sellers - Books :

- [Bluey And Bingo's Fancy Restaurant Cookbook: Yummy Recipes, For Real Life](#)
- [The Summer Of Broken Rules By K. L. Walther](#)
- [If Animals Kissed Good Night By Ann Whitford Paul](#)
- [A Court Of Silver Flames \(a Court Of Thorns And Roses, 5\) By Sarah J. Maas](#)
- [A Court Of Thorns And Roses \(a Court Of Thorns And Roses, 1\)](#)

- [It Starts With Us: A Novel \(2\) \(it Ends With Us\)](#)
- [My Butt Is So Christmassy! By Dawn Mcmillan](#)
- [Baking Yesteryear: The Best Recipes From The 1900s To The 1980s](#)
- [Happy Place By Emily Henry](#)
- [The Last Thing He Told Me: A Novel](#)