

Aleš Završnik *Editor*

Drones and Unmanned Aerial Systems

Legal and Social Implications for
Security and Surveillance

 Springer

Online Drones Unmanned Aerial Systems Implications

**Mohammad Noori,Fuh-Gwo
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Online Drones Unmanned Aerial Systems Implications:

Drones and Unmanned Aerial Systems Aleš Završnik, 2015-12-23 This book tackles the regulatory issues of Unmanned Aerial Systems UAS or Remotely Piloted Aerial Systems RPAS which have profound consequences for privacy security and other fundamental liberties Collectively known as drones they were initially deployed for military purposes reconnaissance surveillance and extrajudicial executions Today we are witnessing a growth of their use into the civilian and humanitarian domain They are increasingly used for goals as diverse as news gathering aerial inspection of oil refinery flare stacks mapping of the Amazonian rain forest crop spraying and search and rescue operations The civil use of drones is becoming a reality in the European Union and in the US The drone revolution may be a new technological revolution Proliferation of the next generation of recreational drones show how drones will be sold as any other consumer item The cultural perception of the technology is shifting as drones are increasingly being used for humanitarian activities on one hand but they can also firmly be situated in the prevailing modes of postmodern governance on the other hand This work will be of interest to researchers in Criminology and Criminal Justice interested in issues related to surveillance security privacy and technology It will also provide a criminological background for related legal issues such as privacy law aviation law international criminal law and comparative law

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

Armed Drones and the Ethics of War Christian Enemark, 2013-09-11 This book assesses the ethical implications of using armed unmanned aerial vehicles hunter killer drones in contemporary conflicts The American way of war is trending away from the heroic and towards the post heroic driven by a political preference for air powered management of strategic risks and the reduction of physical risk to US personnel The recent use of drones in the War on Terror has demonstrated the power of this technology to transcend time and space but there has been relatively little debate in the United States and elsewhere over the embrace of what might be regarded as politically desirable and yet morally worrisome risk free killing Arguably the absence of a relationship of mutual risk between putative combatants poses

a fundamental challenge to the status of war as something morally distinguishable from other forms of violence and it also undermines the professional virtue of the warrior as a courageous risk taker This book considers the use of armed drones in the light of ethical principles that are intended to guard against unjust increases in the incidence and lethality of armed conflict The evidence and arguments presented indicate that in some respects the use of armed drones is to be welcomed as an ethically superior mode of warfare Over time however their continued and increased use is likely to generate more challenges than solutions and perhaps do more harm than good This book will be of much interest to students of the ethics of war airpower counter terrorism strategic studies and security studies in general

Cybersecurity Issues and Challenges in the Drone Industry Shah, Imdad Ali,Jhanjhi, Noor Zaman,2024-02-26 Cybersecurity Issues and Challenges in the Drone Industry is a comprehensive exploration of the critical cybersecurity problems faced by the rapidly expanding drone industry With the widespread adoption of drones in military commercial and recreational sectors the need to address cybersecurity concerns has become increasingly urgent In this book cybersecurity specialists collaborate to present a multifaceted approach to tackling the unique challenges posed by drones They delve into essential topics such as establishing robust encryption and authentication systems conducting regular vulnerability assessments enhancing software security advocating industry wide standards and best practices and educating drone users about the inherent cybersecurity risks As drones or unmanned aerial vehicles UAVs gain popularity and are deployed for various applications ranging from aerial photography and surveillance to delivery services and infrastructure inspections this book emphasizes the criticality of safeguarding the security integrity and privacy of drone systems and the data they handle It highlights the growing vulnerability of drones to cybersecurity threats as these devices become increasingly connected and integrated into our everyday lives This book is an invaluable resource for drone manufacturers government agencies regulators cybersecurity professionals and academia and research institutions invested in understanding and mitigating the cybersecurity risks in the drone industry

Atmospheric Measurements with Unmanned Aerial Systems (UAS) Marcelo I. Guzman,2021-03-02 This book is the first literature collection focused on the development and implementation of unmanned aircraft systems UAS and their integration with sensors for atmospheric measurements on Earth The research covered in the book combines chemical physical and meteorological measurements performed in field campaigns as well as conceptual and laboratory work Useful examples for the development of platforms and autonomous systems for environmental studies are provided which demonstrate how careful the operation of sensors aboard UAS must be to gather information for remote sensing in the atmosphere The work serves as a key collection of articles to introduce the topic to new researchers interested in the field guide future studies and motivate measurements to improve our understanding of the Earth s complex atmosphere

The Internet of Drones Arun Solanki,Sandhya Tarar,Simar Preet Singh,Akash Tayal,2022-11-03 In recent years drones have been integrated with the Internet of Things to offer a variety of exciting new applications Here is a detailed exploration of

adapting and implementing Internet of Drones technologies in real world applications emphasizing solutions to architectural challenges and providing a clear overview of standardization and regulation implementation plans and privacy concerns The book discusses the architectures and protocols for drone communications implementing and deploying of 5G drone setups security issues deep learning techniques applied on real time footage and more It also explores some of the varied applications such as for monitoring and analysis of troposphere pollutants providing services and communications in smart cities such as for weather forecasting communications transport safety and protection for disaster relief management for agricultural crop monitoring and more

Wireless Communications and Networking for Unmanned Aerial Vehicles Walid Saad, Mehdi Bennis, Mohammad Mozaffari, Xingqin Lin, 2020-04-02 The past few years witnessed a major revolution in the area of unmanned aerial vehicles UAVs commonly known as drones due to significant technological advances across various drone related fields ranging from embedded systems to autonomy control security and communications These unprecedented recent advances in UAV technology have made it possible to widely deploy drones across a plethora of application domains ranging from delivery of goods to surveillance environmental monitoring track control remote sensing and search and rescue In fact recent reports from the Federal Aviation Administration FAA anticipate that sales of UAVs may exceed 7 million in 2020 and many industries are currently investing in innovative drone centric applications and research To enable all such applications it is imperative to address a plethora of research challenges pertaining to drone systems ranging from navigation to autonomy control sensing navigation and communications In particular the deployment of UAVs in tomorrow s smart cities is largely contingent upon equipping them with effective means for communications and networking To this end in this book we provide a comprehensive treatment of the wireless communications and networking research challenges and opportunities associated with UAV technology This treatment begins in this chapter which provides an introduction to UAV technology and an in depth discussion on the wireless communication and networking challenges associated with the introduction of UAVs

Law and Regulation of Aerodromes Dr. Ruwantissa Abeyratne, 2014-04-02 This book encapsulates in detail the principles pertaining to legal and regulatory aspects of aerodromes As the title denotes it discusses the various aspects of the structure and functioning of an aerodrome and the complexities involved It focuses on the law and regulation of aerodrome certification and planning aerodrome services financial and economic planning security management and governance The airport industry is one of the fastest growing within the aviation industry requiring innovation and creativity in management This in turn has called for an increased focus on advanced management programmes for airport managers and lawyers The Airport Management Professional Accreditation Programme AMPAP offered worldwide by the International Civil Aviation Organization and Airports Council International and the Angkasa Pura II Airport Management Excellence Programme of Indonesia are two such initiatives which give airport professionals a sound grounding on the principles and techniques of management and law

Remotely Piloted Aircraft Systems Nancy J.

Cooke, Leah J. Rowe, Winston Bennett, Jr., DeForest Q. Joralmon, 2016-08-12 Highlights the human components of Remotely Piloted Aircraft Systems their interactions with the technology and each other and the implications of human capabilities and limitations for the larger system Considers human factors issues associated with RPAS but within the context of a very large system of people other vehicles policy safety concerns and varying applications Chapters have been contributed by world class experts in HSI and those with operational RPAS experience Considers unintended consequences associated with taking a more myopic view of this system Examines implications for practice policy and research Considers both civil and military aspects of RPAS **Security Analytics for the Internet of Everything** Mohuiddin Ahmed, Abu S.S.M Barkat

Ullah, Al-Sakib Khan Pathan, 2020-01-27 Security Analytics for the Internet of Everything compiles the latest trends technologies and applications in this emerging field It includes chapters covering emerging security trends cyber governance artificial intelligence in cybersecurity and cyber challenges Contributions from leading international experts are included The target audience for the book is graduate students professionals and researchers working in the fields of cybersecurity computer networks communications and the Internet of Everything IoE The book also includes some chapters written in a tutorial style so that general readers can easily grasp some of the ideas The Future of Unmanned Aviation in the U.S.

Economy United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 2015 **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 **Recent**

Trends and Advances in Model Based Systems Engineering Azad M. Madni, Barry Boehm, Daniel Erwin, Mahta Moghaddam, Michael Sievers, Marilee Wheaton, 2022-03-24 This volume comprises papers from the 18th Conference on Systems Engineering Research CSER The theme of this volume Recent Trends and Advances in Model Based Systems Engineering reflects the fact that systems engineering is undergoing a transformation motivated by mission and system complexity and enabled by technological advances such as model based systems engineering digital engineering and the

convergence of systems engineering with other disciplines This conference is focused on exploring recent trends and advances in model based systems engineering MBSE and the synergy of MBSE with simulation technology and digital engineering Contributors have submitted papers on MBSE methods modeling approaches integration of digital engineering with MBSE standards modeling languages ontologies and metamodels and economics analysis of MBSE to respond to the challenges posed by 21st century systems What distinguishes this volume are the latest advances in MBSE research the convergence of MBSE with digital engineering and recent advances in applied research in MBSE including growing convergence with systems science and decision science This volume is appropriate as a reference text in graduate engineering courses in Model Based Systems Engineering

Enter the Drones Bill Carey, 2016-07-28 How unmanned aerial vehicles proven in war were introduced in the US for peaceful purposes A narrative history covering the FAA's early experiences with UAVs to the present day While drones have become controversial recently US federal agencies have used them since the 1990s

Automation and Robotics in the Architecture, Engineering, and Construction Industry Houtan Jebelli, Mahmoud Habibnezhad, Shayan Shayesteh, Somayeh Asadi, SangHyun Lee, 2022-01-03 Automation and Robotics in the Architecture Engineering and Construction Industry provides distinct and unified insight into current and future construction robotics offering readers a comprehensive perspective for constructing a roadmap and illuminating improvements for a successful transition towards construction robotization The book covers the fundamentals and applications of robotics autonomous vehicles and human perceptive machines at construction sites Through theoretical and experimental analyses it examines the potential of robotics and automated systems for current and future fieldwork operations and identifies the factors that determine their implementation pace adoption scale and ubiquity throughout the industry The book evaluates the technical societal and economic aspects of adopting robots in construction both as standalone and collaborative systems which in return can afford the opportunity to investigate these AI enabled machines more systematically

The Infrastructures of Security Martin Murray, 2022-08-15 Much of the South African government's response to crime especially in Johannesburg has been to rely increasingly on technology This includes the widespread use of video cameras Artificial Intelligence machine learning and automated systems effectively replacing human watchers with machine watchers The aggregate effect of such steps is to determine who is and isn't allowed to be in public spaces essentially another way to continue segregation In *The Infrastructures of Security* author Martin J Murray concentrates on not only the turn toward technological solutions to managing the risk of crime through digital and software based surveillance and automated information systems but also the introduction of somewhat bizarre and fly by night experimental answers to perceived risk and danger Digitalized surveillance is significant for two reasons first it enables monitoring to take place across wide geographical distances with little time delay and second it allows for the active sorting identification and tracking of bodies behaviors and characteristics of subject populations on a continuous real time basis These new software based surveillance

technologies represent monitoring tracking and information gathering without walls towers or guards **UAV-Based Remote Sensing Volume 2** Felipe Gonzalez Toro,Antonios Tsourdos,2018-04-27 This book is a printed edition of the Special Issue UAV Based Remote Sensing that was published in Sensors **Drones, Surveillance, and Targeted Killings** Anne C. Cunningham,2016-12-15 This timely anthology examines the use of drones by the military law enforcement border patrol and civilians Articles condoning the use of drones in military engagements abroad are balanced with reportage of civilian deaths and resulting creation of more terrorists Pieces touting the effectiveness of drones in domestic surveillance are countered by assertions that they violate Americans civil liberties Opinions about the pros and cons of drone use in securing our borders as well as the potential benefits and dangers of their commercial use will add to readers deep understanding of this complex issue Unmanned Aircraft Systems Sachin Kumar Gupta,Manoj Kumar,Anand Nayyar,Shubham Mahajan,2025-01-09 This book is an essential resource for anyone looking to understand the cutting edge applications and evolving technologies of Unmanned Aerial Systems showcasing how they enhance safety and efficiency in monitoring emergency response and smart city development With the evolution of Unmanned Aircraft Systems UAS its applications can be observed in the fields of monitoring for fire detection sustainable computing emergencies and law enforcement They can be useful for monitoring or screening applications as well as the deployment of smart cities security monitoring and communication establishments at rare locations or unapproachable locations Thus the wireless ad hoc networks of Unmanned Aerial Vehicles UAVs and infrastructure based UAVs can be utilized in this proposal Unmanned aircraft systems UAS extend human potential and allow us to execute dangerous or difficult tasks safely and efficiently saving time money and most importantly lives UAS can help police fire and other public workers save lives in emergencies like natural disasters locate missing animals and children or help fight fighters Unmanned Aircraft Systems contains novel contributions and emerging trends in the area of Unmanned Aerial Vehicles UAV drones and aircraft without a human pilot aboard It has three segments incorporating technological advancements and future trends in UAS the policies and security aspects of UAVs and their applications as an intelligent system Along with these state of the art techniques this book also incorporates advances in AI and machine learning deep learning IoT technology cybersecurity and Blockchain UAV regulation policies in the United States and Europe SOTA in ITS and many more technological advancements which makes this book the pioneer and benchmarking reference in these areas Data-Centric Structural Health Monitoring Mohammad Noori,Fuh-Gwo Yuan,Ehsan Noroozinejad Farsangi,2023-09-05 This book introduces the latest developments in data centric engineering including different artificial intelligence and machine learning approaches as well as their wide range of applications for long term monitoring and health assessment of mechanical aerospace and complex infrastructure systems Leading scholars in the field demonstrate these emerging techniques assure the longevity of engineered systems and predict their life cycles

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