Agricultural Drones

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The Natal Agricultural Journal - 1910

The Good Drone - Kristin Bergtora Sandvik 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.

The Agricultural Journal of the Cape of Good Hope - Cape of Good Hope (Colony). Dept. of Agriculture 1908

Handbook Industry 4.0 - Walter Frenz 2022-06-22
The handbook presents an overview of Industry 4.0 and offers solutions for important practical questions. The law and its current challenges regarding data assignment (who owns the data? / EU guidelines), data security, data protection (General Data Protection Regulation), cyberattacks, competition law (right to access vs. monopolists, permissible and prohibited exchanges of information, possible collaborations) is the point of departure. In turn, the book explores peculiarities in specific areas of Industry 4.0 (Internet of Production, mechanical engineering, artificial intelligence, electromobility, autonomous driving, traffic, medical science, construction, energy industry, etc.). The book’s closing section addresses general developments in management, the digital transformation of companies and the world of work, and ethical questions.
Agricultural Gazette of Canada - Canada. Dept. of Agriculture 1920

Drone Law and Policy - Anthony A. Tarr 2021-08-12
Drone Law and Policy describes the drone industry and its evolution, describing the benefits and risks of its exponential growth. It outlines the current and proposed regulatory framework in Australia, the United States, the United Kingdom and Europe, taking into consideration the current and evolving technological and insurance landscape. This book makes recommendations as to additional regulatory and insurance initiatives which the authors believe are necessary to achieve an effective balance between the various competing interests. The 23 chapters are written by global specialists on crucial topics, such as terrorism and security, airport and aircraft safety, maritime deployment, cyber-risks, regulatory oversight, licensing, standards and insurance. This book will provide authoritative reference and expert guidance for regulators and government agencies, legal practitioners, insurance companies and brokers globally, as well as for major organisations utilising drones in industrial applications.

The Agricultural Gazette of New South Wales - New South Wales. Department of Agriculture 1922

New Developments and Environmental Applications of Drones - Tarmo Lipping 2021-10-29
This volume presents the conference proceedings from FinDrones2020. The book highlights recent developments in drone technology by experts, academicians, and entrepreneurs for applications in agriculture, forestry, and other industries. Emphasis is placed on contextualizing the conference presentations and content to Finland and the unique challenges typical to this region. The work will be of interest to academicians and professionals involved in remote sensing applications of unmanned aerial vehicles, as well as enthusiasts of drone technological developments.

The Journal of the Department of Agriculture of Victoria - Victoria. Dept. of Agriculture 1922

Agricultural Drones - Simon Rose 2017-01-01
Farm fields can span hundreds of acres. With so much area to cover, checking crops and livestock can be difficult. But with an agricultural drone, this job becomes much simpler. In this e-book young readers will discover how drones help farmers maximize efficiencies and bring abundant harvests.

The Journal of the Department of Agriculture, Victoria - Victoria. Department of Agriculture 1921

The Story of the Agricultural Club, 1918-1921 - Sir Robert Henry Rew 1922

Agricultural Drones - Simon Rose 2019-05-01
Farm fields can span hundreds of acres. With so much area to cover, checking crops and livestock can be difficult. But with an agricultural drone, this job becomes much simpler. In this e-book young readers will discover how drones help farmers maximize efficiencies and bring abundant harvests.

Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications - Chowdhury, Niaz 2020-10-30
Blockchain technology allows value exchange without the need for a central authority and ensures trust powered by its decentralized architecture. As such, the growing use of the internet of things (IoT) and the rise of artificial intelligence (AI) are to be benefited immensely by this technology that can offer devices and applications data security, decentralization, accountability, and reliable authentication. Bringing together blockchain technology, AI, and IoT can allow these tools to complement the strengths and weaknesses of the others and make systems more efficient. Multidisciplinary Functions of Blockchain Technology in AI and IoT Applications deliberates upon prospects of blockchain technology using AI and IoT devices in various application domains. This book contains a comprehensive collection of chapters on machine learning, IoT, and AI in areas that include security issues of IoT, farming, supply chain management, predictive analytics, and natural
languages processing. While highlighting these areas, the book is ideally intended for IT industry professionals, students of computer science and software engineering, computer scientists, practitioners, stakeholders, researchers, and academicians interested in updated and advanced research surrounding the functions of blockchain technology in AI and IoT applications across diverse fields of research.

The Agricultural Journal of the Cape of Good Hope - Cape of Good Hope (Colony). Department of Agriculture 1908

Tropical Agriculturist and Magazine of the Ceylon Agricultural Society - 1921

Introduction to Information Systems - R. Kelly Rainer 2021-12-06
Introduction to Information Systems, 9th Edition teaches undergraduate business majors how to use information technology to master their current or future jobs. Students develop a working understanding of information systems and information technology and learn how to apply concepts to successfully facilitate business processes. This course demonstrates that IT is the backbone of any business, whether a student is majoring in accounting, finance, marketing, human resources, production/operations management, or MIS.

Agricultural Journal of the Cape of Good Hope - Cape of Good Hope (Colony). Department of Agriculture 1908

Abridged Agricultural Records - 1912

Drones for Biodiversity Conservation and Ecological Monitoring - Ricardo Díaz-Delgado 2019-12-18
Unmanned aerial vehicles (UAV) have already become an affordable and cost-efficient tool to quickly map a targeted area for many emerging applications in the arena of ecological monitoring and biodiversity conservation. Managers, owners, companies, and scientists are using professional drones equipped with high-resolution visible, multispectral, or thermal cameras to assess the state of ecosystems, the effect of disturbances, or the dynamics and changes within biological communities inter alia. We are now at a tipping point on the use of drones for these type of applications over natural areas. UAV missions are increasing but most of them are testing applicability. It is time now to move to frequent revisiting missions, aiding in the retrieval of important biophysical parameters in ecosystems or mapping species distributions. This Special Issue shows UAV applications contributing to a better understanding of biodiversity and ecosystem status, threats, changes, and trends. It documents the enhancement of knowledge in ecological integrity parameters mapping, long-term ecological monitoring based on drones, mapping of alien species spread and distribution, upscaling ecological variables from drone to satellite images: methods and approaches, rapid risk and disturbance assessment using drones, mapping albedo with UAVs, wildlife tracking, bird colony and chimpanzee nest mapping, habitat mapping and monitoring, and a review on drones for conservation in protected areas.

Biological & Agricultural Index - 1919

Agricultural Gazette of Canada - Canada. Department of Agriculture 1920

Annual Report of the Agricultural Experiment Station, Michigan State University - Michigan State University. Agricultural Experiment Station 1919

Annual Report of the Board of Agriculture - Vermont. State Board of Agriculture 1876

Agricultural Journal of the Cape of Good Hope - Cape of Good Hope (Colony). Dept. of Agriculture 1908

The Agricultural Journal of the Union of South Africa - South Africa. Dept. of Agriculture 1915
Agricultural Robotics - Fouad Sabry 2021-10-05
What Is Agricultural Robotics Every day, we are reminded that the robot revolution is advancing. From self-driving cars to automated cashiers, robots are increasingly becoming a part of our daily lives. While most of our attention has been focused on robots in the manufacturing industry, there is one essential field of activity that they may affect more than any other. Indeed, Food is an absolute requirement that must be produced at whatever cost. As a result, we require either more farmers or new methods of producing food with little manpower. The robots are on their way to save the day. Are you prepared for agricultural robotics?

How You Will Benefit (I) Insights, and validations about the following topics:

(II) Answering the public top questions about agricultural robotics. (III) Real world examples for the usage of agricultural robotics in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technology in each industry to have 360-degree full understanding of agricultural robotics' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of agricultural robotics.

Push Button Agriculture - K. R. Krishna 2017-03-16
This book covers three main types of agricultural systems: the use of robotics, drones (unmanned aerial vehicles), and satellite-guided precision farming methods. Some of these are well refined and are currently in use, while others are in need of refinement and are yet to become popular. The book provides a valuable source of information on this developing field for those involved with agriculture and farming and agricultural engineering. The book is also applicable as a textbook for students and a reference for faculty.

Aerial Robotics in Agriculture - K. R. Krishna 2021-04-15
This important volume provides a plethora of information on aerial vehicles and their possible roles in revolutionizing agricultural procedures through spectral analysis of terrains, soils, crops, water resources, diseases, floods, drought, and farm activities. There are several semi-autonomous and autonomous (robotic) aerial vehicles that are examined for their efficiency in offering detailed spectral data about agrarian regions and individual farms. Among them, small drone aircrafts such as fixed-winged and copter models have already caught the imagination of farmers. They are spreading fast in every nook and corner of the farm world. However, there are many more aerial robots that are utilized in greater detail during farming. In this volume, the focus is on aerial vehicles such as parafoils, blimps, aerostats, and kites, and how they are being evaluated for use in experimental farms and fields. A few aerial vehicles, such as robotic parafoils, have been adopted to procure aerial spectral data and visual imagery to aid agronomic procedures. These and other aerial robots are expected to change and improve the use of the sky in agricultural endeavors and the way we conduct agronomic procedures in the very near future. This volume is a timely resource for agricultural researchers, professors and students, and the general public who are interested in aerial vehicles.
This book covers three main types of agricultural systems: the use of robotics, drones (unmanned aerial vehicles), and satellite-guided precision farming methods. Some of these are well refined and are currently in use, while others are in need of refinement and are yet to become popular. The book provides a valuable source of information on this developing field for those involved with agriculture and farming and agricultural engineering. The book is also applicable as a textbook for students and a reference for faculty.

**Agricultural Index** - 1919

*Drones in Digital Agriculture* - K. S. Subramanian 2022
The book is one of the maiden attempts to compile all aspects of applications of unmanned vehicles in precision farming. The book encompasses history of drone's development in the globe, basics and components of drones and application of drones in sowing till harvest, health monitoring, assessment of crop yields, risk assessment, biodiversity besides regulatory guidelines across the globe. Overall, the book covers wholesome package of drones in digital agriculture. The book will serve as a reference guide for students, scholars, researchers, scientists and industries who wish to explore and employ drones in agricultural practices. Since, drone technology is fairly recent, it may be an excellent reference book for emerging technologies in agriculture.

**The Philippine Agricultural Review** - 1913

*Agricultural Drones* - K. R. Krishna 2018-03-26
Agricultural drones are expected to revolutionize the way we conduct agronomic procedures and maintain natural vegetation on earth. This book explores the increasing importance of the role of aerial robots in managing agricultural farms and natural resources. Agricultural Drones: A Peaceful Pursuit provides a wealth of information on drone usage in agriculture. The book discusses the advanced sensors and imaging capabilities of drones that give farmers new ways to increase yields and reduce crop damage. An introductory chapter provides historical data, with details about various models of drones as well as the most recent and popular agricultural drones in usage. The book goes onto look at such topics as the use of drones for soil fertility, production agronomy, irrigation, weed control, pest and disease control, grain yield forecasting, and economic advantages from drone use. This timely and useful volume will be a valuable resource for faculty, agricultural extension officers, and farmers and farm consultancy agencies. This book would also serve as an excellent textbook for students in agriculture, engineering, geography, etc. Key features: • outlines the advantages of using drones in agriculture, such as for the management of soil fertility, the study of natural resources and vegetation, the maintenance of adequate irrigation, and the control of weeds and pests • covers the economic advantages of using drones in agriculture • examines the regulatory aspects of agricultural drones • provides actual examples of drone usage in agriculture

**Precision Farming from Above** - Louise Jupp 2018-08-31
Professional drones, agribusiness and precision farming. If you are a farmer, this book is a must-read. In plain language, environmental management expert, and licensed drone pilot, Louise Jupp explains the major benefits of commercial UAV/drone surveys to farmers worldwide. She unpacks drone technology, aerial surveys, advances in HD cameras, multispectral/thermal imaging, high-end software and analysis, application and commercial aviation law in a way that makes total sense to any agribusiness. Louise Jupp M.Sc Environmental Management expert and consultant offers UAV/drone surveys for farmers to provide high-end information that typically results in better crop management, increased crop yields and more profitable agribusiness.

This volume responds to the growing interest in adopting aerial robots (UAVs, or drones) for agricultural crop production, which are revolutionizing farming methods worldwide. The book provides a detailed review of 250 UAVs that examines their usefulness in enhancing profitability, yield, and quality of crop production. Recent trends indicate
an increase in agricultural drone production and use. Millions of dollars have been invested in start-ups that produce agro-drones in the past several years. North America, Europe, China, and the Far East have excelled in offering a large number of UAV models. Some of them are versatile, a few are specific, and many of them are low cost. With so many drone models (over 1200) available, how do farmers and agricultural specialists choose the models best for them? This compendium examines the most useful drones and provides the pertinent details about each drone, its producer, cost incurred, and its pros and cons. It covers their technical specifications, suitability for various purposes, previous performances in farms, and possible benefits to farmers. It covers fixed-wing drones, fixed-winged (hybrid) VTOL helicopters, multi-copters, tilted-wing drones, etc. The book includes a few drones meant more for military or other purposes (e.g. recreation/fun) but that could be easily modified and adapted for the farming sector. The reviews compare activities among the UAVs, such as agricultural imagery of crops, ability to provide spectral analyses to collect useful data about a crop’s growth patterns, and how they can be used to gauge crop canopy temperature (i.e. water stress index), determine grain maturity, and much more.

**Electric Machines in Agriculture** - Kevin Desmond 2020-01-22
As far back as 1873, experiments were carried out to see whether the electric trolley system applied to omnibuses could be adapted to ploughing and tilling fields. In 1913, 1,600 “trolley/cable ploughs were in use across German farmlands. The arrival of the gasoline tractor relegated the use of electricity to electroculture, short haul farm machinery and lawn mowers. But it is only with the commercial availability of the lithium-ion battery during the last decade, that electrically powered drones and more recently tractors and earth movers are being seen as the way ahead. In this, the sixth in his seminal electric transport history series, Kevin Desmond portrays the life and work of the innovative engineers who perfected these e-tractors and agricultural drones.

**E-agriculture in action: Drones for agriculture** - Food and Agriculture Organization of the United Nations 2018-07-20
The FAO-ITU E-agriculture strategy guide (available at http://www.fao.org/3/a-i5564e.pdf) is actively being used to assist countries in the successful identification, development and implementation of sustainable ICT solutions for agriculture. The use of unmanned aerial vehicles (UAVs), also known as drones, and connected analytics has great potential to support and address some of the most pressing problems faced by agriculture in terms of access to actionable real-time quality data. Goldman Sachs predicts that the agriculture sector will be the second largest user of drones in the world in the next five years. Sensor networks based on the Internet of things (IoT) are increasingly being used in the agriculture sector to meet the challenge of harvesting meaningful and actionable information from the big data generated by these systems. This publication is the second in the series titled E-agriculture in action (2016), launched by FAO and ITU, and builds on the previous FAO publications that highlight the use of ICT for agriculture such as Mobile technologies for agriculture and rural development (2012), Information and communication technologies for agriculture and rural development (2013) and Success stories on information and communication technologies for agriculture and rural development (2015). The ultimate aim is to promote successful, scalable, sustainable and replicable ICT for agriculture (ICT4Ag) solutions.