




M.A. Oliver  
*Editor*

# Geostatistical Applications for Precision Agriculture

 Springer

# Geostatistical Applications For Precision Agriculture

**Ruth Kerry, Alexandre Escolà**



## **Geostatistical Applications For Precision Agriculture:**

**Geostatistical Applications for Precision Agriculture** Margaret A. Oliver, 2010-07-27 The aim of this book is to bring together a series of contributions from experts in the field to cover the major aspects of the application of geostatistics in precision agriculture The focus will not be on theory although there is a need for some theory to set the methods in their appropriate context The subject areas identified and the authors selected have applied the methods in a precision agriculture framework The papers will reflect the wide range of methods available and how they can be applied practically in the context of precision agriculture This book is likely to have more impact as it becomes increasingly possible to obtain data cheaply and more farmers use onboard digital maps of soil and crops to manage their land It might also stimulate more software development for geostatistics in PA

**Sensing Approaches for Precision Agriculture** Ruth Kerry, Alexandre Escolà, 2021-11-23 Sensing Approaches for Precision Agriculture aims to bring together the state of the art of the most popular sensing techniques and the current state of research on the application of sensors in Precision Agriculture PA Sensing is of great value in PA because it provides cheap and immediate data for management This book gives a broad overview of sensing in PA and a coherent introduction for new professionals and research scientists Readers are introduced to the potential applications of a range of different sensors how they should be used properly and their limitations for use in PA Chapters on specific topics and case studies provide depth and enable implementation of the methods by users A general introduction about sensing techniques in PA is followed by Chapters 2 9 on the most important specific techniques in sensing and Chapters 10 13 include mini case studies each showing cutting edge applications for different sensing methods Finally there is an Epilogue on how we expect sensors and analysis to develop

**Instant Insights: Decision support systems in agriculture** Dr Matt Aitkenhead, Dr B. Sailaja, Dr Ch. Padmavathi, Dr D. Krishnaveni, Dr G. Katti, Dr D. Subrahmanyam, Dr M. S. Prasad, Dr S. Gayatri, Dr S. R. Voleti, Dr Oliver Körner, Dr Nicolas Tremblay, Dr Clyde W. Fraisse, Dr Norman E. Breuer, Dr Victor Cabrera, 2021-09-14 This collection features five peer reviewed literature reviews on decision support systems DSS in agriculture The first chapter provides a review of DSS in agriculture whilst addressing the key questions surrounding their use for farm soil and crop management The different aspects of agricultural DSS design implementation and operation are also discussed The second chapter assesses the role of DSS for pest monitoring and management through information technology such as remote sensing GIS spectral indices image based diagnostics and phenology based degree day models The third chapter discusses the potential of implementing DSS within the growing mechanisation in greenhouses It examines differences in development and application of deterministic explanatory and data based models for real time control and DSS The fourth chapter explores the key issues associated with deploying DSS in precision agriculture whilst also considering their human and social aspects The chapter also considers how future research on DSS can be moulded to improve productivity in a precision agriculture setting The final chapter outlines the importance of a participatory approach in DSS

development whilst also offering examples of climate based DSS for crop and land management pest and disease management and livestock dairy management      GIS Applications in Agriculture, Volume Four Tom Mueller,Gretchen F. Sassenrath,2015-03-02 Conservation planning involves targeted management practices and land use decision making based on careful analysis of landscape limitations in order to protect soil and water resources Developing solutions to conservation planning is of worldwide interest due to anticipated population growth growing demand of feedstocks for biofuels decreasing

**Kriging in Slope Reliability Analysis** Lei-Lei Liu,Jing-Ze Li,Lei Huang,2024-11-25 Kriging can be used to determine optimal unbiased predictions for regionalized variables and has been shown to be a powerful tool in slope reliability analysis for reliability based design This is the first book to systematically cover the basic theory and applications of the method in slope reliability assessment The book gives an extensive and detailed presentation of principles and applications introducing geostatistics and the basic theory of Kriging before addressing the challenges in the application of Kriging in slope reliability analysis The latest advancements in Kriging application methods are introduced which enhance computational accuracy and reduce model errors These include optimization algorithms for spatial parameters in Kriging adaptive modeling of spatial correlation structures efficient sampling methods based on Monte Carlo simulation quantitative analysis of slope failure risks and reliability analysis methods for unreinforced and reinforced slopes based on conditional random fields Several case studies are presented to illustrate the practical application and implementation procedures bridging theory and practical engineering Kriging in Slope Reliability Analysis particularly suits consulting engineers researchers and postgraduate students      Soil-Specific Farming Rattan Lal,B.A. Stewart,2015-08-20 Faced with challenges of resource scarcity and environmental degradation it is important to adopt innovative farming systems that maximize resource efficiency while protecting the environment Soil Specific Farming Precision Agriculture focuses on principles and applications of soil specific farming providing information on rapidly evolving agri

**Basic Steps in Geostatistics: The Variogram and Kriging** Margaret A. Oliver,Richard Webster,2015-03-30 This brief will provide a bridge in succinct form between the geostatistics textbooks and the computer manuals for push button practice It is becoming increasingly important for practitioners especially neophytes to understand what underlies modern geostatistics and the currently available software so that they can choose sensibly and draw correct conclusions from their analysis and mapping The brief will contain some theory but only that needed for practitioners to understand the essential steps in analyses It will guide readers sequentially through the stages of properly designed sampling exploratory data analysis variography computing the variogram and modelling it followed by ordinary kriging and finally mapping kriged estimates and their errors There will be short section on trend and universal kriging Other types of kriging will be mentioned so that readers can delve further in the substantive literature to tackle more complex tasks      **Bioeconomy for Sustainable Development** Chetan Keswani,2019-10-14 The current era of incredible innovations has made science and technology one of the most powerful tools to meet the goals of incremental

prosperity for humans and sustainable development The development of the biotech industry in any given country is shaped by the characteristics of the technology particularly its close relation to scientific knowledge and by country specific factors the level and nature of the scientific knowledge base the institutional set up and the role assumed by the government which influence the country's ability to exploit new opportunities and appropriate the respective results This book presents an integrated approach for sustained innovation in various areas of biotechnology Focusing mainly on the industrial socio economic and legal implications of biotechnological advances it examines in detail not only the implications of IPR in omics based research but also the ethical and intellectual standards and how these can be developed for sustained innovation Integrating science and business it offers a peek behind the scenes of the biotech industry and provides a comprehensive analysis of the foundations of the present day industry for students and professionals alike The book is divided into three parts Food and Agricultural Biotechnology Industrial Biotechnology Pharmaceutical Biotechnology **Achieving**

**sustainable cultivation of maize Volume 2** Dr Dave Watson, 2017-07-31 Summarises current good agricultural practice in maize cultivation from seed selection to nutrient management conservation agriculture rotations and intercropping Reviews advances in understanding and managing diseases and pests such as viruses nematodes and weeds Discusses ways maize cultivation can be made more climate smart **Spatiotemporal Analysis of Extreme Hydrological Events** Gerald

Corzo, Emmanouil Varouchakis, 2018-11-20 Spatio temporal Analysis of Extreme Hydrological Events offers an extensive view of the experiences and applications of the latest developments and methodologies for analyzing and understanding extreme environmental and hydrological events The book addresses the topic using spatio temporal methods such as space time geostatistics machine learning statistical theory hydrological modelling neural network and evolutionary algorithms This important resource for both hydrologists and statisticians interested in the framework of spatial and temporal analysis of hydrological events will provide users with an enhanced understanding of the relationship between magnitude dynamics and the probability of extreme hydrological events Presents spatio temporal processes including multivariate dynamic modelling Provides varying methodological approaches giving the readers multiple hydrological modelling information to use in their work Includes a variety of case studies making the context of the book relatable to everyday working situations *Spatial*

*Analysis Using Big Data* Yoshiaki Yamagata, Hajime Seya, 2019-11-03 Spatial Analysis Using Big Data Methods and Urban Applications helps readers understand the most powerful state of the art spatial econometric methods focusing particularly on urban research problems The methods represent a cluster of potentially transformational socio economic modeling tools that allow researchers to capture real time and high resolution information to potentially reveal new socioeconomic dynamics within urban populations Each method written by leading exponents of the discipline uses real time urban big data to solve research problems in spatial science Urban applications of these methods are provided in unsurpassed depth with chapters on surface temperature mapping value analysis community clustering and spatial social networks among many others

Reviews some of the most powerful and challenging modern methods to study big data problems in spatial science Provides computer codes written in R MATLAB and Python to help implement methods Applies these methods to common problems observed in urban and regional economics      Agricultural Internet of Things and Decision Support for Precision Smart Farming Annamaria Castrignano, Gabriele Buttafuoco, Raj Khosla, Abdul Mouazen, Dimitrios Moshou, Olivier Naud, 2020-01-09 Agricultural Internet of Things and Decision Support for Smart Farming reveals how a set of key enabling technologies KET related to agronomic management remote and proximal sensing data mining decision making and automation can be efficiently integrated in one system Chapters cover how KETs enable real time monitoring of soil conditions determine real time site specific requirements of crop systems help develop a decision support system DSS aimed at maximizing the efficient use of resources and provide planning for agronomic inputs differentiated in time and space This book is ideal for researchers academics post graduate students and practitioners who want to embrace new agricultural technologies Presents the science behind smart technologies for agricultural management Reveals the power of data science and how to extract meaningful insights from big data on what is most suitable based on individual time and space Proves how advanced technologies used in agriculture practices can become site specific locally adaptive operationally feasible and economically affordable      *Pedometrics* Alex. B. McBratney, Budiman Minasny, Uta Stockmann, 2018-04-24 This book presents the basic concepts of quantitative soil science and within this framework it seeks to construct a new body of knowledge There is a growing need for quantitative approach in soil science which arises from a general demand for improved economic production and environmental management Pedometrics can be defined as the development and application of statistical and mathematical methods applicable to data analysis problems in soil science This book shows how pedometrics can address key soil related questions from a quantitative point of view It addresses four main areas which are akin to the problems of conventional pedology i Understanding the pattern of soil distribution in character space soil classification ii Understanding soil spatial and temporal variation iii Evaluating the utility and quality of soil and ultimately iv Understanding the genesis of soil This is the first book that address these problems in a coherent quantitative approach      **Data Science in Agriculture and Natural Resource Management** G. P. Obi Reddy, Mehul S. Raval, J. Adinarayana, Sanjay Chaudhary, 2021-10-11 This book aims to address emerging challenges in the field of agriculture and natural resource management using the principles and applications of data science DS The book is organized in three sections and it has fourteen chapters dealing with specialized areas The chapters are written by experts sharing their experiences very lucidly through case studies suitable illustrations and tables The contents have been designed to fulfil the needs of geospatial data science agricultural natural resources and environmental sciences of traditional universities agricultural universities technological universities research institutes and academic colleges worldwide It will help the planners policymakers and extension scientists in planning and sustainable management of agriculture and natural resources The authors believe that with its uniqueness the book is one of

the important efforts in the contemporary cyber physical systems      *Precision Agriculture for Sustainability and Environmental Protection* Margaret Oliver, Thomas Bishop, Ben Marchant, 2013-11-20 Precision agriculture PA involves the application of technologies and agronomic principles to manage spatial and temporal variation associated with all aspects of agricultural production in order to improve crop performance and environmental quality The focus of this book is to introduce a non specialist audience to the the role of PA in food security environmental protection and sustainable use of natural resources as well as its economic benefits The technologies covered include yield monitors and remote sensing and the key agronomic principles addressed are the optimal delivery of fertilizers water and pesticides to crops only when and where these are required As a result it is shown that both food production and resource efficiency can be maximized without waste or damage to the environment such as can occur from excessive fertilizer or pesticide applications The authors of necessity describe some technicalities about PA but the overall aim is to introduce readers who are unfamiliar with PA to this very broad subject and to demonstrate the potential impact of PA on the environment and economy Chapter 3 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 3 0 license

**Fundamentals of Agricultural and Field Robotics** Manoj Karkee, Qin Zhang, 2021-07-27 Over the past century mechanization has been an important means for optimizing resource utilization improving worker health and safety and reducing labor requirements in farming while increasing productivity and quality of 4F Food Fuel Fiber Feed Recognizing this contribution agricultural mechanization was considered as one of the top ten engineering achievements of 20th century by the National Academy of Engineering Accordingly farming communities have adopted increasing level of automation and robotics to further improve the precision management of crops including input resources increase productivity and reduce farm labor beyond what has been possible with conventional mechanization technologies It is more important than ever to continue to develop and adopt novel automation and robotic solutions into farming so that some of the most complex agricultural tasks which require huge amount of seasonal labor such as fruit and vegetable harvesting could be automated while meeting the rapidly increasing need for 4F In addition continual innovation in and adoption of agricultural automation and robotic technologies is essential to minimize the use of depleting resources including water minerals and other chemicals so that sufficient amount of safe and healthy food can be produced for current generation while not compromising the potential for the future generation This book aims at presenting the fundamental principles of various aspects of automation and robotics as they relate to production agriculture the branch of agriculture dealing with farming operations from field preparation to seeding to harvesting and field logistics The building blocks of agricultural automation and robotics that are discussed in the book include sensing and machine vision control guidance manipulation and end effector technologies The fundamentals and operating principles of these technologies are explained with examples from cutting edge research and development currently going on around the world This book brings together

scientists engineers students and professionals working in these and related technologies to present their latest examples of agricultural automation and robotics research innovation and development while explaining the fundamentals of the technology The book therefore benefits those who wish to develop novel agricultural engineering solutions and or to adopt them in the future

*Soil Science* Michael T. Aide,Indi Braden,2022-12-14 *Soil Science Emerging Technologies Global Perspectives and Applications* describes recent research that illustrates the universal importance of understanding soil and soil s relationship to environmental stewardship and food security Research supporting emerging technologies provides abilities to discern key soil attributes that influence soil behavior and development understand soil biology to create sustainable land management and sequester carbon to partially negate climate change Soil science is an interdisciplinary field of inquiry that must consider resource allocation and social needs to foster a culture that protects and secures not only soil health but also water and air quality Chapters in this book reflect the diversity of modern thinking within the discipline of soil science but collectively illustrate that global sustainability of food the environment and biological diversity are critical to future generations

**Advances in Agronomy** ,2017-04-18 *Advances in Agronomy Volume 143* continues to be recognized as a leading reference and first rate source for the latest research in agronomy This latest release brings new and updated information on Soil The Forgotten Piece of the Water Food Energy Nexus Humin Its Composition and Importance in Soil Organic Matter the Effects of Drought Stress on Morpho Physiological Traits Biochemical Characteristics Yield and Yield Components in Different Ploidy Wheat A Meta Analysis and a section on the Delineation of Soil Management Zones for Variable Rate Fertilization A Review Each volume in this series contains an eclectic group of reviews by leading scientists throughout the world As always the subjects covered are rich varied and exemplary of the abundant subject matter addressed by this long running serial Includes numerous timely state of the art reviews on the latest advancements in agronomy Features distinguished well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

**Precision agriculture for sustainability** Dr John Stafford,2018-11-06 Comprehensive review of key technologies in precision agriculture from proximal and remote sensing to decision support systems and variable rate technologies Surveys key applications of precision agriculture from controlled traffic farming to site specific nutrient and water management Includes discussion of the economics of precision agriculture

**Instant Insights: Improving water management in crop cultivation** Dr Amir Haghverdi,Dr Brian G. Leib,Susan A. O'Shaughnessy,Dr Manuel A. Andrade,Q. Xue,J. Rudd,J. Bell,T. Marek,S. Liu,D. S. Gaydon,Dr Robert C. Schwartz,Dr Kevin McInnes,Dr Dana Porter,2021-12-21 This specially curated collection features five reviews of current and key research on improving water management in crop cultivation The first chapter focuses on site specific variable rate irrigation systems utilised across agriculture and examines site specific data acquisition and mining approaches such as soil mapping and zone delineation The second chapter considers the main deficit irrigation strategies



used in agriculture to improve crop water productivity It also explores the status of site specific irrigation management and its role in minimizing agricultural water use The third chapter reviews progress in winter wheat water management and water use efficiency WUE drawing on long term field experiments in the U S southern Great Plains It discusses the key relationships between yield evapotranspiration WUE and best management practices The fourth chapter considers the key techniques for improving rice water productivity through enhanced irrigation practices aiming to reduce irrigation water use in rice cultivation such as the Alternate Wetting and Drying technique The final chapter examines the main irrigation methods used in dryland sorghum production It also reviews the relationship between soil properties and irrigation management

This book delves into Geostatistical Applications For Precision Agriculture. Geostatistical Applications For Precision Agriculture is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Geostatistical Applications For Precision Agriculture, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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  3. In chapter 2, this book will delve into the foundational concepts of Geostatistical Applications For Precision Agriculture. This chapter will elucidate the essential principles that need to be understood to grasp Geostatistical Applications For Precision Agriculture in its entirety.
  4. In chapter 3, the author will examine the practical applications of Geostatistical Applications For Precision Agriculture in daily life. This chapter will showcase real-world examples of how Geostatistical Applications For Precision Agriculture can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Geostatistical Applications For Precision Agriculture in specific contexts. The fourth chapter will explore how Geostatistical Applications For Precision Agriculture is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Geostatistical Applications For Precision Agriculture. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Geostatistical Applications For Precision Agriculture.

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