



Use of Geostatistics in the sugarcane context in Brazil: a review

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Abstract

The use of Geostatistics has become increasingly popular in recent decades in the context of agricultural sciences, representing an excellent innovation tool for rural producers and researchers who develop work in the most diverse agricultural cultures. This popularization is justified due to the optimization that Geostatistics brings to the production process, reducing unnecessary expenses on the part of the producer and mitigating negative impacts of agricultural activity on the environment. In this scenario, this article seeks to emphasize the use of Geostatistics in the context of sugarcane culture in Brazil, which represents the third largest agricultural crop with planted area in the country, seeking, through a systematic review, to highlight the importance of Geostatistics as a Precision Agriculture tool for this crop. To achieve this objective, we developed a systematic survey in important indexing bases of national and international scientific works, which made it possible to identify published works on the subject in Brazil, allowing the visualization of the regions where this innovative tool is being used. At the end of the review, it was possible to measure the current state of research with Geostatistics developed in sugarcane plantations throughout the Brazilian territory, which allowed us to conclude that there is a heterogeneity in the distribution of these researches, which can be explained by legal restrictions for the development of the culture in certain regions or the lack of better dissemination of research through journals with greater impact.

Keywords Spatial variability · Experimental semivariogram · Precision agriculture · Process innovation

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Soares Geostatistics Environment

R Bogdan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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geoENV IV — Geostatistics for Environmental Applications Xavier Sanchez-Vila, Jesus Carrera, Jaime Gómez-Hernández, 2006-04-11 The fourth edition of the European Conference on Geostatistics for Environmental Applications geoENV IV took place in Barcelona November 27 29 2002 As a proof that there is an increasing interest in environmental issues in the geostatistical community the conference attracted over 100 participants mostly Europeans up to 10 European countries were represented but also from other countries in the world Only 46 contributions selected out of around 100 submitted papers were invited to be presented orally during the conference Additionally 30 authors were invited to present their work in poster format during a special session All oral and poster contributors were invited to submit their work to be considered for publication in this Kluwer series All papers underwent a reviewing process which consisted on two reviewers for oral presentations and one reviewer for posters The book opens with one keynote paper by Philippe Naveau It is followed by 40 papers that correspond to those presented orally during the conference and accepted by the reviewers These papers are classified according to their main topic The list of topics show the diversity of the contributions and the fields of application At the end of the book summaries of up to 19 poster presentations are added The geoENV conferences stress two issues namely geostatistics and environmental applications Thus papers can be classified into two groups

geoENV VII - Geostatistics for Environmental Applications Peter M. Atkinson, C. D. Lloyd, 2010-07-03 This volume brings together selected contributions from geoENV 2008 the 7th International Conference on Geostatistics for Environmental Applications held in Southampton UK It presents the state of the art in geostatistics for the environmental sciences

geoENV VI - Geostatistics for Environmental Applications Amílcar Soares, Maria João Pereira, Roussos Dimitrakopoulos, 2008-03-12 This volume contains 40 selected full text contributions from the Sixth European Conference on Geostatistics for Environmental Applications geoENV IV held in Rhodes Greece October 25 26 2006 The objective of the editors was to compile a set of papers from which the reader could perceive how geostatistics is applied within the environmental sciences A few selected theoretical contributions are also included

geoENV I — Geostatistics for Environmental Applications A.O. Soares, Jaime Gómez-Hernández, Roland Froidevaux, 2013-06-29 GeoENV96 the First European Conference on Geostatistics for Environmental Applications held in Lisbon was conceived to bring together researchers mostly from but not limited to Europe working on environmental issues approached by geostatistical methods Papers were attracted from fields as diverse as hydrogeology biology soil sciences air pollution or ecology It is clear that there is a lot of activity on geostatistics for environmental applications as the collection of papers in this book reveals GeoENV96 was successful in the number and quality of the papers presented which surpassed the initial expectations There is still a large dispersion on the level of application of geostatistics in the different areas To help in spreading the most novel applications of geostatistics across disciplines and to discuss the specific problems related to the application of geostatistics

to environmental applications geoENV96 is intended to set the pace and to be the first of a series of biennial meetings The pace is set now let us wait for geoENV98 Lisbon November 1996 The Executive Committee Jaime Gomez Hernandez Roland Froidevaux Amílcar Soares TABLE OF CONTENTS Foreword VII Hydrology Groundwater Groundwater Contamination Equivalent Transmissivities in Heterogeneous Porous Media under Radially Convergent Flow X Sanchez Vila c L Axness and J Carrera **Geostatistics for Environmental Applications** Philippe Renard, Hélène Demougeot-Renard, Roland

Froidevaux, 2005-12-06 Once applied only to problems of mining reserves assessment or petroleum reservoir characterization geostatistics is now being used in an increasingly large number of disciplines in environmental sciences On the one hand it enables the analysis and handling in a rigorous probabilistic framework of the issues of spatial and temporal interpolation of continuous or categorical environmental variables On the other hand the methodology is also used to design and optimize sampling campaigns Geostatistics for Environmental Applications contains forty selected contributions covering the latest progress in a broad spectrum of fields including air quality climatology ecology groundwater hydrology surface hydrology oceanography soil contamination epidemiology and health natural hazards and remote sensing **geoENV III –**

Geostatistics for Environmental Applications Pascal Monestiez, Denis Allard, Roland Froidevaux, 2012-12-06 This volume contains selected contributions from geoENV III the Third European Conference on Geostatistics for Environmental Sciences held in Avignon France in November 2000 This third book of the geoENV series illustrates the new methodological developments in geostatistics as applied to environmental sciences which have occurred during the last two years It also presents a wide variety of practical environmental applications which will be of interest to both researchers and practitioners The book starts with two keynote papers on hydrogeology and on climatology and atmospheric pollution followed by forty contributions The content of this book is foremost practical The editors have endeavored to compile a set of papers in which the readers could perceive how geostatistics is applied within environmental sciences A few selected methodological and theoretical contributions are also included The papers are organised in the following sections Air Pollution Climate Environment Health Ecology Hydrology Methods Soil Science Site Remediation presenting applications varying from delineation of hazardous areas monitoring water quality space time modeling of sand beaches areal rainfall estimation air pollution monitoring multivariate conditional simulation soil texture analysis fish abundance analysis tree productivity index estimation radionuclide migration analysis wombling procedure tracer tests modeling direct sequential co simulation to stochastic modeling of flow and transport Audience This publication will be of great interest and practical value to geostatisticians working both in academia and in industry **geoENV II – Geostatistics for Environmental**

Applications Jaime Gómez-Hernández, A.O. Soares, Roland Froidevaux, 2013-11-27 The Second European Conference on Geostatistics for Environmental Applications took place in Valencia November 18-20 1998 Two years have past from the first meeting in Lisbon and the geostatistical community has kept active in the environmental field In these days of congress

inflation we feel that continuity can only be achieved by ensuring quality in the papers For this reason all papers in the book have been reviewed by at least two referees and care has been taken to ensure that the reviewer comments have been incorporated in the final version of the manuscript We are thankful to the members of the scientific committee for their timely review of the scripts All in all there are three keynote papers from experts in soil science climatology and ecology and 43 contributed papers providing a good indication of the status of geostatistics as applied in the environmental field all over the world We feel now confident that the geoENV conference series seeded around a coffee table almost six years ago will march firmly into the next century

Stochastic Modeling and Geostatistics Timothy C. Coburn, Jeffrey M. Yarus, R. L. Chambers, 2005-12-10 Handbook of Environmental and Ecological Statistics Alan E. Gelfand, Montserrat Fuentes, Jennifer A. Hoeting, Richard Lyttleton Smith, 2019-01-15 This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes The 21st century statistics community has become increasingly interdisciplinary bringing a large collection of modern tools to all areas of application in environmental processes In addition the environmental community has substantially increased its scope of data collection including observational data satellite derived data and computer model output The resultant impact in this latter community has been substantial no longer are simple regression and analysis of variance methods adequate The contribution of this handbook is to assemble a state of the art view of this interface Features An internationally regarded editorial team A distinguished collection of contributors A thoroughly contemporary treatment of a substantial interdisciplinary interface Written to engage both statisticians as well as quantitative environmental researchers 34 chapters covering methodology ecological processes environmental exposure and statistical methods in climate science

GeoENV I – Geostatistics for Environmental Applications A.O. Soares, Jaime Gómez-Hernández, Roland Froidevaux, 1997-08-31 This book contains selected contributions from the geoENV96 First European Conference on Geostatistics for Environmental Applications held in Lisbon in November 1996 This is the first of a geoENV series of biennial planned books The series is intended to show the state of the art of geostatistics in environmental applications with new cases results and relevant discussions from leading researchers and practitioners around the world New and important theoretical and practical developments of geostatistics in the environmental field were compiled from three main areas Hydrology Groundwater and Groundwater Contamination Soil Contamination and Site Remediation Air Pollution Ecology and Other Applications The book presents a set of geostatistical tools and approaches used to successfully resolve a variety of specific problems in environment modelling especially those resulting from the typical scarcity of spatial sampling the time component of very dynamic systems the modelling of various systems of contaminants the uncertainty assessment of health cost functions etc Prominent topics concerning methodological tools and methods stochastic simulation techniques models of integrating soft information seismic and remote sensing images inverse modelling of groundwater flow neural network classification change of support and up scaling are also

included in this book This publication will be of great interest and practical value to geostatisticians working both in universities and in industry

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