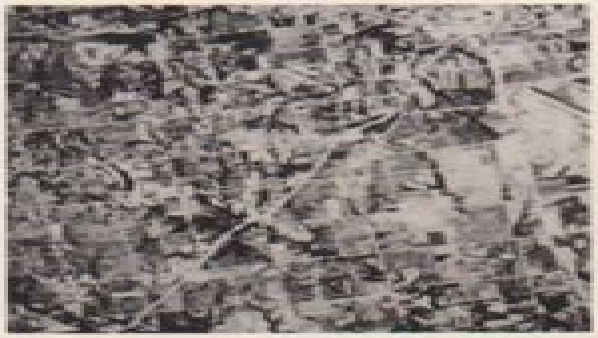
COMPUTER PROCESSING OF REMOTELY-SENSED IMAGES

AN INTRODUCTION

PAUL M. MATHER



Computer Processing Of Remotely Sensed Images An Introduction

Paul M. Mather,Magaly Koch

Computer Processing Of Remotely Sensed Images An Introduction:

Computer Processing of Remotely-Sensed Images Paul M. Mather,2004-06-28 Remotely sensed images of the Earth provide information about the geographical distribution of natural and cultural features as well as a record of changes in environmental conditions over time This text offers technical guidance to those involved in processing and classifying such data **Computer Processing of Remotely-Sensed Images** Paul M. Mather,Magaly Koch,2022-04-11 Computer Processing of Remotely Sensed Images A thorough introduction to computer processing of remotely sensed images processing methods and applications Remote sensing is a crucial form of measurement that allows for the gauging of an object or space without direct physical contact allowing for the assessment and recording of a target under conditions which would normally render access difficult or impossible This is done through the analysis and interpretation of electromagnetic radiation EMR that is reflected or emitted by an object surveyed and recorded by an observer or instrument that is not in contact with the target This methodology is particularly of importance in Earth observation by remote sensing wherein airborne or satellite borne instruments of EMR provide data on the planet s land seas ice and atmosphere This permits scientists to establish relationships between the measurements and the nature and distribution of phenomena on the Earth s surface or within the atmosphere Still relying on a visual and conceptual approach to the material the fifth edition of this successful textbook provides students with methods of computer processing of remotely sensed data and introduces them to environmental applications which make use of remotely sensed images The new edition s content has been rearranged to be more clearly focused on image processing methods and applications in remote sensing with new examples including material on the Copernicus missions microsatellites and recently launched SAR satellites as well as time series analysis methods The fifth edition of Computer Processing of Remotely Sensed Images also contains A cohesive presentation of the fundamental components of Earth observation remote sensing that is easy to understand and highly digestible Largely non technical language providing insights into more advanced topics that may be too difficult for a non mathematician to understand Illustrations and example boxes throughout the book to illustrate concepts as well as revised examples that reflect the latest information References and links to the most up to date online and open access sources used by students Computer Processing of Remotely Sensed Images is a highly insightful textbook for advanced undergraduates and postgraduate students taking courses in remote sensing and GIS in Geography Geology and Earth Environmental Science departments

Computer Processing of Remotely-Sensed Images Paul M. Mather,Magaly Koch,2011-07-28 This fourth and full colour edition updates and expands a widely used textbook aimed at advanced undergraduate and postgraduate students taking courses in remote sensing and GIS in Geography Geology and Earth Environmental Science departments Existing material has been brought up to date and new material has been added In particular a new chapter exploring the two way links between remote sensing and environmental GIS has been added New and updated material includes A website at www

wiley com go mather4 that provides access to an updated and expanded version of the MIPS image processing software for Microsoft Windows PowerPoint slideshows of the figures from each chapter and case studies including full data sets Includes new chapter on Remote Sensing and Environmental GIS that provides insights into the ways in which remotely sensed data can be used synergistically with other spatial data sets including hydrogeological and archaeological applications New section on image processing from a computer science perspective presented in a non technical way including some remarks on statistics New material on image transforms including the analysis of temporal change and data fusion techniques New material on image classification including decision trees support vector machines and independent components analysis and Now in full colour throughout This book provides the material required for a single semester course in Environmental Remote Sensing plus additional more advanced reading for students specialising in some aspect of the subject It is written largely in non technical language yet it provides insights into more advanced topics that some may consider too difficult for a non mathematician to understand The case studies available from the website are fully documented research projects complete with original data sets For readers who do not have access to commercial image processing software MIPS provides a licence free intuitive and comprehensive alternative **Computer Processing of Remotely-Sensed Images** Paul M. Mather,2005-12-13 Remotely sensed images of the Earth s surface provide a valuable source of information about the geographical distribution and properties of natural and cultural features This fully revised and updated edition of a highly regarded textbook deals with the mechanics of processing remotely senses images Presented in an accessible manner the book covers a wide range of image processing and pattern recognition techniques Features include New topics on LiDAR data processing SAR interferometry the analysis of imaging spectrometer image sets and the use of the wavelet transform An accompanying CD ROM with updated MIPS software including modules for standard procedures such as image display filtering image transforms graph plotting import of data from a range of sensors A set of exercises including data sets illustrating the application of discussed methods using the MIPS software An extensive list of WWW resources including colour illustrations for easy download For further information including exercises and latest software information visit the Author s Website at http homepage ntlworld com paul mather ComputerProcessing3 **Introduction to Remotely Sensed Data** Barbara Anne Harrison,David Laurence Barry Jupp,1989 The first of five books which constitute the TMicroBRIAN Resource Manual Gives a concise overview of remote sensing for students and professionals concerned with the management of natural resources and includes extensive reference material related to remote sensing Describes data acquisition methods the range of data sources approaches to image interpretation and possible application areas Includes a glossary references and an index **MicroBRIAN Resource Manual: Introduction to remotely sensed data** Barbara Anne Harrison,1989

Geographical Information System Concepts And Business Opportunities Prithvish Nag And Smita Sengupta,2007 In Indian context *Practical Use of Remotely Sensed Data and Imagery in the Coastal Zone* David R. Green,2002

Computer Processing of Remote-sensed Images Paul M. Mather,1999 Introduction To Geographical Information Systems Prithvish Nag And Smita Sengupta,Prithvish Nag,2008 In Indian context Symposium on Machine Processing of Remotely Sensed Data ,1976 **Symposium on Machine Processing of Remotely Sensed Data, June 29-July 1, 1976, the Laboratory for Applications of Remote Sensing, Purdue University, West Lafayette, Indiana** ,1976 **Remote Sensing Handbook for Tropical Coastal Management** Edmund Peter Green,2000 The Handbook provides a detailed evaluation of what can realistically be achieved by remote sensing in an operational coastal management context It takes the user through the planning and implementation of remote sensing projects from the setting of realistic objectives deciding which imagery will be most appropriate to achieve those objectives the acquisition geometric and radiometric correction of imagery the field survey methods needed to ground truth the imagery and guide image classification the image processing techniques required to optimise outputs through the image interpretation and evaluation of the accuracy of outputs Linked to the Handbook is a computer based remote sensing distance learning module Applications of satellite and airborne image data to coastal management available free of charge via www unesco bilko org **Image Interpretation in Geology** Stephen A. Drury,1993 The second edition of Image Interpretation in Geology has been fully rewritten to take account of recent advances in geographic information systems GIS and digital image processing The basic physical principles of remote sensing and how they are applied in acquiring image data from aircraft and satellites are described in detail and are then related to the relevant physiology and psychology of human vision From here images from different climate zones of minerals the rocks and soils that they make up common geological structures and geologically controlled vegetation are analysed using the basic mathematical principles of digital processing and GIS In particular the second edition covers all aspects of remote sensing in geology without requiring sophisticated use of mathematics includes a new chapter on applications gives guidelines for the use of remote sensing and GIS and is illustrated by a comprehensive selection of outstanding half tones stereoscopic and colour images This comprehensive text will serve the needs of intermediate and advanced geology and environmental science undergraduates on aerial photograph interpretation and remote sensing courses It is also suitable for postgraduates and professional geologists involved in digital image processing GIS and geological mapping BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved New Scientist and Science Journal ,1988 Proceedings of the ... International Symposium on Remote Sensing of Environment ,2009 Tropical Forestry Research in the New Millennium Azmy Hj. Mohamed,2003 **American Book Publishing Record** ,2003 *Proceedings of the Fourteenth International Conference, Applied Geologic Remote Sensing* ,2000 Canadian Journal of Soil Science ,2005

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