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CLASSIFICATION METHODS FOR REMOTELY SENSED DATA

TASKIN KAVZOGLU, BRANDT TSO,
AND PAUL M. MATHER



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Classification Methods for Remotely Sensed Data Taskin Kavzoglu, Brandt Tso, Paul M. Mather, 2024-09-04 The third edition of the bestselling Classification Methods for Remotely Sensed Data covers current state of the art machine learning algorithms and developments in the analysis of remotely sensed data This book is thoroughly updated to meet the needs of readers today and provides six new chapters on deep learning feature extraction and selection multisource image fusion hyperparameter optimization accuracy assessment with model explainability and object based image analysis which is relatively a new paradigm in image processing and classification It presents new AI based analysis tools and metrics together with ongoing debates on accuracy assessment strategies and XAI methods New in this edition Provides comprehensive background on the theory of deep learning and its application to remote sensing data Includes a chapter on hyperparameter optimization techniques to guarantee the highest performance in classification applications Outlines the latest strategies and accuracy measures in accuracy assessment and summarizes accuracy metrics and assessment strategies Discusses the methods used for explaining inherent structures and weighing the features of ML and AI algorithms that are critical for explaining the robustness of the models This book is intended for industry professionals researchers academics and graduate students who want a thorough and up to date guide to the many and varied techniques of image classification applied in the fields of geography geospatial and earth sciences electronic and computer science environmental engineering etc

Remotely Sensed Data Characterization, Classification, and Accuracies Ph.D., Prasad S. Thenkabail, 2015-10-02 A volume in the Remote Sensing Handbook series Remotely Sensed Data Characterization Classification and Accuracies documents the scientific and methodological advances that have taken place during the last 50 years The other two volumes in the series are Land Resources Monitoring Modeling and Mapping with Remote Sensing and Remote Sensing of Water Resources Disasters and Urban Studies This volume demonstrates the experience utility methods and models used in studying a wide array of remotely sensed data characterization classification and accuracies for terrestrial applications Leading experts on global geographic coverage study areas and array of satellite and sensors contribute to this unique handbook This theoretical as well as highly practical book represents a thorough history of advancement in the field over last

50 years bringing us to where we are now and highlighting future possibilities Highlights include Fundamental and advanced topics in remote sensing satellites and sensors Remote sensing data calibration normalization harmonization and synthesis Optical Radar LiDAR thermal hyperspectral and other satellite sensors normalization of remotely sensed data and data degradations Digital image processing urban image classification and image classification methods in land use land cover cropland change detection studies Enhanced vegetation indices and standardization of vegetation indices Object based image analysis OBIA and geospatial data integration LiDAR data processing and applications Geoprocessing GIS and GIScience GNSS applications Crowdsourcing and cloud computing Google Earth for Earth Sciences Map accuracies Remote sensing law or space law and a host of other topics

Remote Sensing Handbook - Three Volume Set Prasad Thenkabail,2018-10-03 A volume in the three volume Remote Sensing Handbook series Remote Sensing of Water Resources Disasters and Urban Studies documents the scientific and methodological advances that have taken place during the last 50 years The other two volumes in the series are Remotely Sensed Data Characterization Classification and Accuracies and Land Reso

Remote Sensing of Natural Resources Guangxing Wang,Qihao Weng,2013-07-12 Highlighting new technologies Remote Sensing of Natural Resources explores advanced remote sensing systems and algorithms for image processing enhancement feature extraction data fusion image classification image based modeling image based sampling design map accuracy assessment and quality control It also discusses their applications for evaluation of natural resources including sampling design land use and land cover classification natural landscape and ecosystem assessment forestry agriculture biomass and carbon cycle modeling wetland classification and dynamics monitoring and soils and minerals mapping The book combines review articles with case studies that demonstrate recent advances and developments of methods techniques and applications of remote sensing with each chapter on a specific area of natural resources Through a comprehensive examination of the wide range of applications of remote sensing technologies to natural resources the book provides insight into advanced remote sensing systems technologies and algorithms for researchers scientists engineers and decision makers

Classification of Remotely Sensed Images I.L Thomas,V Benning,N.P Ching,1987-01-01 Remotely sensed images are an indispensable tool to researchers in disciplines such as cartography forestry and geology in which mapping by satellite or aircraft is often a far more accurate efficient and cost effective method than conventional survey Most users of remote sensing data are now familiar with using photographic images prepared to standard prescriptions by others to relate colours or grey tones to what actually exists on the ground This book is aimed at the discipline oriented user who wishes to move away from these traditional photographic interpretation methods towards interactive analysis systems Such systems permit the classification of the digital data in ways that enable locations and quantitative information on specific themes to be extracted and portrayed The emphasis is upon the integration of these new techniques into existing discipline skills the user is not expected to become a computer operator The book covers the fundamental theory of image classification and illustrates it with

practical examples in the form of a structured outline of a total research project It is therefore an essential reference manual to sit at the elbow of the user working with an image processing system for remotely sensed data

Image and Signal Processing for Remote Sensing, 2004 **IEEE International Geoscience and Remote Sensing Symposium Proceedings**, 2003 **Machine Processing of Remotely Sensed Data** S. K. Mengel, D. B. Morrison, 1985 Advanced Methods for the Classification of Remote-sensing Data Federico Causa, 2006 **Journal of the American Statistical Association** American Statistical Association, 1996 **Computational Statistics with Environmental and Remote Sensing Applications** Alexei Teterukovskiy, 2003 **Proceedings for the ... International Symposium on Remote Sensing of Environment, the ... Symposium of the Canadian Remote Sensing Society**, 1998 **Proceedings - Symposium on Machine Processing of Remotely Sensed Data**, 1985 Identification and Mapping of Agricultural Tillage Methods Utilizing Remotely Sensed Data Stephen R. South, 2003 Encyclopedia of Environmetrics Abdel H. El-Shaarawi, Walter W. Piegorsch, 2001-12-31 A comprehensive overview of environmetric research and its applications Environmetrics covers the development and application of quantitative methods in the environmental sciences It provides essential tools for understanding predicting and controlling the impacts of agents both man made and natural which affect the environment Basic and applied research in this area covers a broad range of topics Primary among these are the quantitative sciences such as statistics probability and applied mathematics chemometrics and econometrics Applications are also important for example in ecology and environmental biology public health atmospheric science geology engineering risk management and regulatory governmental policy amongst others Divided into 12 sections the Encyclopedia brings together over 600 detailed articles which have been carefully selected and reviewed through the collaborative efforts of the Editors in Chief and the appropriate Section Editor Presented in alphabetical order all the articles will include an explanatory introduction extensive cross referencing and an up to date bibliography providing literature references for further reading Presenting state of the art information in a readable highly accessible style the scope and coverage provided by the Encyclopedia of Environmetrics will ensure its place as the landmark reference for the many scientists educators and decision makers working across this multidisciplinary field An essential reference tool for university libraries research laboratories government institutions and consultancies concerned with the environmental sciences the Encyclopedia of Environmetrics brings together for the first time comprehensive coverage of the full range of topics techniques and applications covered by this multidisciplinary field There is currently no central reference source which addresses the needs of this multidisciplinary community This new Encyclopedia will fill this gap by providing a comprehensive source of relevant fundamental concepts in environmetric research development and applications for statisticians mathematicians economists environmentalists ecologist government officials and policy makers Fuzzy Machine Learning Algorithms for Remote Sensing Image Classification Anil Kumar, A. Senthil Kumar, Priyadarshi Upadhyay, 2020-07-19 This book covers the state of art

image classification methods for discrimination of earth objects from remote sensing satellite data with an emphasis on fuzzy machine learning and deep learning algorithms Both types of algorithms are described in such details that these can be implemented directly for thematic mapping of multiple class or specific class landcover from multispectral optical remote sensing data These algorithms along with multi date multi sensor remote sensing are capable to monitor specific stage for e g phenology of growing crop of a particular class also included With these capabilities fuzzy machine learning algorithms have strong applications in areas like crop insurance forest fire mapping stubble burning post disaster damage mapping etc It also provides details about the temporal indices database using proposed Class Based Sensor Independent CBSI approach supported by practical examples As well this book addresses other related algorithms based on distance kernel based as well as spatial information through Markov Random Field MRF Local convolution methods to handle mixed pixels non linearity and noisy pixels Further this book covers about techniques for quantitative assessment of soft classified fraction outputs from soft classification and supported by in house developed tool called sub pixel multi spectral image classifier SMIC It is aimed at graduate postgraduate research scholars and working professionals of different branches such as Geoinformation sciences Geography Electrical Electronics and Computer Sciences etc working in the fields of earth observation and satellite image processing Learning algorithms discussed in this book may also be useful in other related fields for example in medical imaging Overall this book aims to exclusive focus on using large range of fuzzy classification algorithms for remote sensing images discuss ANN CNN RNN and hybrid learning classifiers application on remote sensing images describe sub pixel multi spectral image classifier tool SMIC to support discussed fuzzy and learning algorithms explain how to assess soft classified outputs as fraction images using fuzzy error matrix FERM and its advance versions with FERM tool Entropy Correlation Coefficient Root Mean Square Error and Receiver Operating Characteristic ROC methods and combines explanation of the algorithms with case studies and practical applications

Sport Materials, Modelling and Simulation Yan Wen Wu, 2011-02-12 Selected peer reviewed papers from the 2011 International Conference on Sport Material Modelling and Simulation ICSMMS 2011 January 5 6 2011 Wuhan P R China

International Symposium, Machine Processing of Remotely Sensed Data ,1985

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