Classification of IRS LISS-III Images by using Artificial Neural Networks

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ABSTRACT

The purpose of this paper is to classify the LISS-III satellite images into different classes as agriculture, urban and water body, Here pixel based classification is used to classify each pixel of the satellite image as belonging to one of those three classes. To perform this classification, a neural network back propagation technique is used. The neural network consists of three layers: Input layer, hidden layer and output layer. During training of a network, the sample inputs are given to the input layer which then propagate the hidden layer and then later to the output layer. Each neuron in hidden layer will receive the inputs from all the neurons of the corresponding synoptic weights and summed up. Each neuron of output larger will also get the input from all the neurons. of hidden layer which are also multiplied with their corresponding weights. The outputs of the output layer are compared with desired result. The error between desired output and actual output is calculated to obtain error matrix. For each input, both local and global classification is obtained. In local classification, the neural network is trained using a particular image and that same image is given as input. In global classification, a new input is given for the network rather than the images with which it has been trained. Accuracy is then calculated for both the local and global classification.

General Terms

Image Mining, Classification Technique, Neural Networks, Pattern Recognition

Keywords

Image classification. Neural Networks, back propagation algorithm, LISS-III Multispectral images

1. INTRODUCTION

Neural networks are used as statistical tools in a variety of fields, including Psychology, Statistics, Engineering, Economics and even Physics. They are used also as models of cognitive processes by neuro and cognitive scientists. Basically, Neural networks are built from simple units, sometimes called neurons or cells, by analogy with the real thing. These units are linked by a set of weighted connections. Learning is usually accomplished by modification of the connection weights. Each unit codes or corresponds to a feature or a characteristic of a pattern that we want to analyze or that we want to use as predictor. These networks usually organize their units into several layers. The first layer is called the input layer; the last one is the output layer. The intermediate layers are called the hidden layers. The information to be analyzed is fed to the neurons of the first layer and then propagated to the next layer and so on until the last layer. Each

unit receives some information from other units and processes this information, which will be converted into the output of the unit. The goal of the network is to learn or to discover some association between input and output patterns, or to analyze, or to find the structure of the input patterns. The learning process is achieved through the modification of the connection weights between units. Bischof et al. [1992] describes multi spectral classification of land-sat images using neural networks. Heerman et al. 119921 describes the classification of multi-spectral remote sensing data using a back propagation Neural network. Hepner et al.[1990] have given a comparison to conventional supervised classification by using minimal training set in Artificial Neural Network. Mohanty [1996] have classified remotely sensed data by using Artificial Neural Network based on software package. In this paper, Artificial Neural Network is used for classification of IRS-1D data, which has been implemented. The back propagation algorithm is applied for classification of image for each input in both local and global classifications are applied. In local classification, the neural network is trained using a particular image and that the same image is given as input. In global classification, a new input is given for the network rather than the images with which it has been trained. Accuracy is calculated for both local and global classification.

2. STUDY AREA AND CHARACTERISTICS

Remote Sections (IRS-IID) satellite PAN(Panchromatic) high spatial resolution and LISS-III (Linear Imaging self scanning sensor! gives high spectral resolution data. Indian Remote Sensing Satellite (IRS)-1C/1D gives high resolution PAN, LISS-III, WiFS data. Topographic maps on 1:50000 scale are used. Classified landuse / landoover [level III] map generated from LISS-III data is used to assess the damage to agricultuse crops. The two data sets acquired for this research were collected via IRS-1D satellites using LISS-III sensors in the multispectral (MS) mode by NRSA, Hyderabad, Andhra Pradesh (A.P) , India. The characteristics of IRS-1D, LISS-III data are summarized in Table I.

3. METHODOLOGY

The purpose of this study is to classify satellite image by both local and global classifications and compare the accuracy of each of the classifications. In addition, the accuracy of the training is improved by finding the saturation point, where regardless of the number of Indian epochs through the training data, the accuracy will not increase further. The methodology is:

To apply local classification to the input image for each of the training data sets 100, 500 and 1000 respectively.

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Information, Photonics and Communication Jyotsna Kumar Mandal, Kallol Bhattacharya, Ivy Majumdar, Surajit Mandal, 2019-10-15 The book includes high quality papers presented at the Second National Conference of Information Photonics and Communication 2019 organized by the Department of Electronics devices and VLSI communication systems and networks signal processing and intelligent systems it includes topics such as RF and microwave communications wireless and mobile communication satellite communications signal image and video processing deep learning and optical networks

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approaches and methods to real world problems and in particular exploratory research that describes novel approaches in the field of artificial intelligence Particular emphasis is laid on modern trends in selected fields of interest New algorithms or methods in a variety of fields are also presented The Computer Science On line Conference CSOC 2015 is intended to provide an international forum for discussions on the latest high quality research results in all areas related to Computer Science The addressed topics are the theoretical aspects and applications of Computer Science Artificial Intelligences Cybernetics Automation Control Theory and Software Engineering Exploiting the Spatial Information in High Resolution Satellite Data and Utilising Multi-Source Data for Tropical Mountain Forest and Land Cover Mapping Anke Gleitsmann, 2012-02-24 Die Cordillera Central der Dominikanischen Republik ist eine Ouelle wichtiger nat rlicher Ressourcen vor allem Wasser fr dieses karibische Land Im oberen Einzugsgebiet des Royague del Norte wurde im Laufe des 20 Jahrhunderts ein groer Teil der nat rlichen W lder abgeholzt und durch Weide und Ackerland sowie Sekund rvegetation ersetzt Entwaldung und nicht nachhaltige Landnutzung auf den steilen H ngen dieses Gebietes haben zu Erosion und Landdegradierung gef hrt Es gibt aber auch noch verschiedene prim re Bergw lder darunter kleine Nebelwaldbereiche mit bedrohten endemischen Arten Fernerkundungsdaten sind eine unverzichtbare Quelle frfl chendeckender umliche Informationen die als Basis fr Raumnutzungspl ne und den Schutz bedrohter kosysteme ben tigt werden Die Nutzbarkeit von Satellitendaten mittlerer Aufl sung z B Landsat f r die Kartierung der Vegetationstypen des Untersuchungsgebietes ist begrenzt weil das kleinr umige Mosaik verschiedener Landbedeckungstypen wie in vielen tropischen Gebirgsbereichen zu einem gro en Anteil von Mischpixeln in diesen Daten f hrt Die neue Generation kommerzieller hochaufl sender Satelliten wie IKONOS 1 m bis 4 m Aufl sung erm glicht eine detailliertere Kartierung von kleineren Interessensgebieten aber die automatische Klassifizierung r umlich hochaufgel ster Daten beinhaltet auch neue Herausforderungen Diese Arbeit besch ftigt sich daher haupts chlich mit der Optimierung von Methoden zur Ausnutzung der r umlichen Information in hochaufl senden Satellitendaten f r die Kartierung von tropischen Bergw ldern und anderen Landoberfl chen Water Resources Management and Sustainability Pankaj Kumar, Gaurav Kant Nigam, Manish Kumar Sinha, Anju Singh, 2022-02-02 Water is the elixir of life and is crucial for sustainable development Earlier it was considered to be a limitless or at least a fully renewable natural resource During the past 20 years however there has been tremendous pressure on this precious natural resource mainly due to rapid urbanization industrialization and the increase in the human population Together these have resulted in increasing demand for irrigation industrial and household purposes to meet supply chain requirements Keeping in mind the scarcity of available water resources in the near future and its impending threats it has become imperative on the part of scientists in hydrology and allied disciplines such as geography landscape planning sustainability science etc Regional planners and supply chain management experts also must be involved in studying the spatial and temporal nature of the growing demand for water and the future availability for its judicial use and sustainable management A primary intent of the book is to provide

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Water Food and Environmental Security xiii Groundwater Recharge and Modelling xiv Computational Methods in Hydrology xv Soil and Water Conservation Technologies Recent Technologies for Disaster Management and Risk Reduction Praveen Kumar Rai, Prafull Singh, Varun Narayan Mishra, 2021-08-21 This book explains to governments decision makers and disaster professionals the potential uses of recent technologies for disaster monitoring and risk reduction based on the knowledge and experience of prominent experts researchers in the relevant fields It discusses the application of recent technological developments for emerging disaster risks in today s societies and deliberates on the various aspects of disaster risk reduction strategies especially through sustainable community resilience and responses This book consists of selected invited papers on disaster management which focus on community resilience and responses towards disaster risk reduction based on experiences and closely examines the coordinated research activities involving all stakeholders especially the communities at risk Many regions of the world and aspects of disaster risk and its management are covered It is described how recent technologies will support better understanding and action to reduce the number and impact of disasters in future The principal audience for this book is researchers urban planners policy makers as well as students Handbook of **Engineering Hydrology (Three-Volume Set)** Saeid Eslamian, 2018-10-03 While most books examine only the classical aspects of hydrology this three volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries It examines new approaches addresses growing concerns about hydrological and ecological Geospatial Technology for Water Resource connectivity and considers the worldwide impact of climate change Applications Prashant K. Srivastava, Prem Chandra Pandey, Pavan Kumar, Akhilesh Singh Raghubanshi, Dawei Han, 2016-07-26 This book advances the scientific understanding development and application of geospatial technologies related to water resource management It presents recent developments and applications specifically by utilizing new earth observation datasets such as TRMM GPM AMSR E 2 SMOS SMAP and GCOM in combination with GIS artificial intelligence and hybrid techniques By linking geospatial techniques with new satellite missions for earth and environmental science the book promotes the synergistic and multidisciplinary activities of scientists and users working in the field of hydrological sciences

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Table of Contents Classification Of Irs Liss Iii Images By Using Artificial

- 1. Understanding the eBook Classification Of Irs Liss Iii Images By Using Artificial
 - o The Rise of Digital Reading Classification Of Irs Liss Iii Images By Using Artificial
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Classification Of Irs Liss Iii Images By Using Artificial
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Classification Of Irs Liss Iii Images By Using Artificial
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Classification Of Irs Liss Iii Images By Using Artificial
 - Personalized Recommendations

- Classification Of Irs Liss Iii Images By Using Artificial User Reviews and Ratings
- Classification Of Irs Liss Iii Images By Using Artificial and Bestseller Lists
- 5. Accessing Classification Of Irs Liss Iii Images By Using Artificial Free and Paid eBooks
 - Classification Of Irs Liss Iii Images By Using Artificial Public Domain eBooks
 - o Classification Of Irs Liss Iii Images By Using Artificial eBook Subscription Services
 - Classification Of Irs Liss Iii Images By Using Artificial Budget-Friendly Options
- 6. Navigating Classification Of Irs Liss Iii Images By Using Artificial eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Classification Of Irs Liss Iii Images By Using Artificial Compatibility with Devices
 - Classification Of Irs Liss Iii Images By Using Artificial Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Classification Of Irs Liss Iii Images By Using Artificial
 - Highlighting and Note-Taking Classification Of Irs Liss Iii Images By Using Artificial
 - o Interactive Elements Classification Of Irs Liss Iii Images By Using Artificial
- 8. Staying Engaged with Classification Of Irs Liss Iii Images By Using Artificial
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Classification Of Irs Liss Iii Images By Using Artificial
- 9. Balancing eBooks and Physical Books Classification Of Irs Liss Iii Images By Using Artificial
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Classification Of Irs Liss Iii Images By Using Artificial
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Classification Of Irs Liss Iii Images By Using Artificial
 - Setting Reading Goals Classification Of Irs Liss Iii Images By Using Artificial
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Classification Of Irs Liss Iii Images By Using Artificial
 - Fact-Checking eBook Content of Classification Of Irs Liss Iii Images By Using Artificial

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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