

Classification of GIS Image using GLCM and Neural Network

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Abstract:

GIS can hold agricultural regions data like forest, fruit covered lands and/or cultivate lands, these lands have been managed inside GIS by receiving a selected region remotely sensed image, so GIS users must have an appropriate digital map that represents these lands each one according to its owner, status, and some other data. Normally, in such system, these lands will be classified by the users according to agricultural status depending on human vision. So, hardly to the users to classify these lands manually, and this become a great problem which take a long time depending on human efforts, especially if there is a huge number of lands. The suggested study creates a new ArcMap GIS tool which classifies these given lands automatically. Thus, this tool runs the developed system application; it will gather required information for each one of selected land, by sampling sub-images from their centers depending on the digital map, and gathers related status information from attribute database. On the next stage, the system will extract a vector of textural features for each one of the selected lands from their image samples using second order statistics Gray Level Co-occurrence Matrix (GLCM) and calculate eight textural features for each one of three visible bands (RGB) for each land sample. That vector of features will become the input to supervised multi-layer perceptron with backpropagation neural network classifier which be learned depending on recommended GIS user training data set. As a result the system has accuracy near to 75%; these results were achieved by comparing the classification results from system test trials with desired user classification data.

Introduction:

Geospatial data has both spatial and thematic components. Conceptually, geographic data can be broken up in two elements: observation or entity and attribute or variable. GIS have to be able to manage both elements. Spatial

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Drug Abuse Curriculum for Employee Assistance Program Professionals DIANE Publishing Company,1995-07 Identifies the critical issues and information needs of the field and to develop a training program which was responsive to the identified needs Designed to assist employee assistance program EAP professionals in understanding and addressing employee drug abuse problems **The Routledge Handbook of Language Education Curriculum Design** Peter Mikan,Ilona Wallace,2019-12-23 Curriculum design options cover a continuum from regional and school based programs to national and international frameworks How does policy speak to practice What have teacher researchers discovered through in classroom studies Where do you begin to describe or measure effective language education curriculum design The Routledge Handbook of Language Education Curriculum Design presents a comprehensive collection of essays on these issues by 31 established practitioners and new researchers Informed by experienced scholarship and fresh studies this handbook shares international perspectives on language education from policy and curriculum to teacher training and future directions The handbook addresses language education curriculum design across five sections Language curriculum design perspectives policies and practices Designs across the curriculum Curriculum designs in language education Curriculum resources evaluation and assessment Teacher education research and future projects With contributions from Australia Brazil Indonesia Switzerland Timor Leste and more the handbook represents the breadth of research into and the global implications for sound language education curriculum design It considers equally the needs of students and policy makers from urban metropolises and remote communities It is designed to reinvigorate discussions about education policy curriculum management and the role of teacher researchers **Handbook of the Report of the Education Commission** G. B. Kipps,1912 **The Northwestern Reporter** ,1922 Quality Matters in Early Childhood Education and Care: Portugal 2012 Taguma Miho,Litjens Ineke,Makowiecki Kelly,2012-07-27 This book focuses on quality issues in early childhood education and care in Portugal *International Yearbook of History Education* A. Dickinson,P. Gordon,P. Lee,J. Slater,2013-11-19 This international academic and professional yearbook contains articles and reviews on matters of interest to all concerned with history in education from contributors throughout the world The yearbook will encourage rigorous exploration or philosophical psychological sociological and historical perspectives upon history in education and their relation to practice where appropriate The theme of the first edition is centralisation and decentralisation of national curricula **"Code of Massachusetts regulations, 1987"** ,1987 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by

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Catalog of Federal Domestic Assistance United States. Office of Management and Budget, 2009. Identifies and describes specific government assistance opportunities such as loans, grants, counseling and procurement contracts available under many agencies and programs.

Indian Education, 1904

Language Planning in Primary Schools in Asia Richard Baldauf, Robert Kaplan, Knonko Kamwangamalu, Pauline Bryant, 2013-09-13. In foreign language education decisions must be taken on what languages to teach, who will teach them, in which schools, i.e. all, only urban, only rural, in which grades, the number of hours a week, and the cost involved. This book explores the answers to these questions across a number of Asian polities. It illustrates why some of the efforts undertaken are successful and why some are not, why despite significant investments of time and resources some students do not seem to acquire the languages being taught, and why some teachers responsible for instruction in the designated foreign languages have problems achieving fluency in the designated language or have other language teaching difficulties. It suggests some strategies various polities might attempt to achieve their stated language learning objectives. This book was originally published as a special issue of *Current Issues in Language Planning*.

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