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GIS-based landslide hazard zonation model and its application

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Abstract

Multi-source earth observation data are highly desirable in nowadays landslide hazard prediction modeling. Landslide Hazard Zonation (LHZ) is a very important content of landslide hazard prediction modeling. In this paper, take Wan county for instance, we investigate the potentials of derivation from hybrid data sets to study landslide hazard zonation based on the ordinal scale relative weighting-rating technique. LHZ is then performed with chosen factor layers including: buffer map of thrusts, lithology, slope angle and relative relief calculated from DEM, NDVI, buffer map of drainage and Lineaments extracted from the digital satellite scene (TM). Then the Landslide Hazard Index (LHI) value is calculated and landslide hazard zonation is decided by slicing LHI histogram. The statistics demonstrate that High stable slope zone, Stable slope zone, Quasi-stable slope zone, Relatively unstable slope zone, Unstable slope zone and Defended slope zone account for 2.20%, 14.02%, 59.88%, 28.27%, 12.17% and 3.47% respectively. Then, GPS deformation control points on the landslide bodies are used to verify the validity of the LHZ technique.

Keywords: landslide hazard zonation; digital elevation model (DEM); landslide triggering factors

1. Introduction

Landslide hazard is one of the most common natural hazards, which has wide influence and strong destroys leading to tremendous economic loss every year. It is taken as a stratagem consideration in many countries all over the world. Landslide hazard monitoring and prediction have been paid attention to for all kind of scientific communities. Landslide hazard zonation (LHZ) is a very important content of landslide hazard prediction modelling. With the development of satellite observation technique and advanced data analysis tool, such as remote sensing and GIS technology, new modelling theories intergrating all the data sources are provided for landslide hazard zonation (David R., 2003; Ostir, K., 2003).

There are LHZ examples performed by some scholars. Intergrating spatial and temporal multi-source remotely sensed imagery is required to assess landslide hazard susceptibility. An evaluation is given of the aspects of uncertainty associated with the use of remote sensing data, and conclusions of landslide studies and hazard zonation in Europe are given as to the incorporation of remote sensing techniques within the overall technique framework (Mantovani, F., 1996). Western ghat LHZ is studied with hybrid data source (Nagarajan, R., 1998). Himalayas

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Gis Application In Landslide Hazard Analysis

Ram Ray, Maurizio Lazzari



Gis Application In Landslide Hazard Analysis:

Development of Techniques for Landslide Hazard Analysis Application Using GIS and Remote Sensing ,2006

Landslides Ram Ray,Maurizio Lazzari,2020-11-19 Landslides Investigation and Monitoring offers a comprehensive overview of recent developments in the field of mass movements and landslide hazards Chapter authors use in situ measurements modeling and remotely sensed data and methods to study landslides This book provides a thorough overview of the latest efforts by international researchers on landslides and opens new possible research directions for further novel developments

Web Usage Mining Techniques and Applications Across Industries Kumar, A.V. Senthil,2016-08-12 Web usage mining is defined as the application of data mining technologies to online usage patterns as a way to better understand and serve the needs of web based applications Because the internet has become a central component in information sharing and commerce having the ability to analyze user behavior on the web has become a critical component to a variety of industries Web Usage Mining Techniques and Applications Across Industries addresses the systems and methodologies that enable organizations to predict web user behavior as a way to support website design and personalization of web based services and commerce Featuring perspectives from a variety of sectors this publication is designed for use by IT specialists business professionals researchers and graduate level students interested in learning more about the latest concepts related to web based information retrieval and mining

Landslides and Engineered Slopes. Experience, Theory and Practice Stefano Aversa,Leonardo Cascini,Luciano Picarelli,Claudio Scavia,2018-04-17 Landslides and Engineered Slopes Experience Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides Naples Italy 12 19 June 2016 The book aims to emphasize the relationship between landslides and other natural hazards Hence three of the main sessions focus on Volcanic induced landslides Earthquake induced landslides and Weather induced landslides respectively while the fourth main session deals with Human induced landslides Some papers presented in a special session devoted to Subareal and submarine landslide processes and hazard and in a Young Session complete the books Landslides and Engineered Slopes Experience Theory and Practice underlines the importance of the classic approach of modern science which moves from experience to theory as the basic instrument to study landslides Experience is the key to understand the natural phenomena focusing on all the factors that play a major role Theory is the instrument to manage the data provided by experience following a mathematical approach this allows not only to clarify the nature and the deep causes of phenomena but mostly to predict future and if required manage similar events Practical benefits from the results of theory to protect people and man made works Landslides and Engineered Slopes Experience Theory and Practice is useful to scientists and practitioners working in the areas of rock and soil mechanics geotechnical engineering engineering geology and geology

Emergency and Disaster Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2018-07-06 In a world of

earthquakes tsunamis and terrorist attacks emergency response plans are crucial to solving problems overcoming challenges and restoring and improving communities that have been affected by these catastrophic events Although the necessity for quick and efficient aid is understood researchers and professionals continue to strive for the best practices and methodologies to properly handle such significant events *Emergency and Disaster Management Concepts Methodologies Tools and Applications* is an innovative reference source for the latest research on the theoretical and practical components of initiating crisis management and emergency response Highlighting a range of topics such as preparedness and assessment aid and relief and the integration of smart technologies this multi volume book is designed for emergency professionals policy makers practitioners academicians and researchers interested in all aspects of disaster crisis and emergency studies

Applications of Soft Computing Jörn Mehnen, Mario Köppen, Ashraf Saad, Ashutosh Tiwari, 2009-09-30 WSC2008 Chair's Welcome Message Dear Colleague The World Soft Computing WSC conference is an annual international online conference on applied and theoretical soft computing technology This WSC 2008 is the thirteenth conference in this series and it has been a great success We received a lot of excellent paper submissions which were peer reviewed by an international team of experts Only 60 papers out of 111 submissions were selected for online publication This assured a high quality standard for this online conference The corresponding online statistics are a proof of the great world wide interest in the WSC 2008 conference The conference website had a total of 33 367 different human user accesses from 43 countries with around 100 visitors every day 151 people signed up to WSC to discuss their scientific disciplines in our chat rooms and the forum Also audio and slide presentations allowed a detailed discussion of the papers The submissions and discussions showed that there is a wide range of soft computing applications to date The topics covered by the conference range from applied to theoretical aspects of fuzzy neuro fuzzy and rough sets over to neural networks to single and multi objective optimisation Contributions about particle swarm optimisation gene expression programming clustering classification support vector machines quantum evolution and agent systems have also been received One whole session was devoted to soft computing techniques in computer graphics imaging vision and signal processing

Landslides - Disaster Risk Reduction Kyoji Sassa, Filippo Canuti, 2008-11-07 This book documents the First World Landslide Forum which was jointly organized by the International Consortium on Landslides ICL eight UN organizations UNESCO WMO FAO UN ISDR UNU UNEP World Bank UNDP and four NGOs International Council for Science World Federation of Engineering Organizations Kyoto Univ and Japan Landslide Society in Tokyo in 2008 The material consists of four parts The Open Forum Progress of IPL Activities Four Thematic Lectures in the Plenary Symposium Global Landslide Risk Reduction Six Keynote Lectures in the Plenary session and the aims and overviews of eighteen parallel sessions dealing with various aspects necessary for landslide disaster risk reduction such as observations from space climate change and slope instability landslides threatening heritage sites the economic and social impact of landslides monitoring prediction and early warning and risk management strategies in urban area etc Thus it

enables the reader to benefit from a wide range of research intended to reduce risk due to landslide disasters as presented in the first global multi disciplinary meeting The Carpathians: Integrating Nature and Society Towards Sustainability Jacek Kozak, Katarzyna Ostapowicz, Andrzej Bytnerowicz, Bartłomiej Wyzga, 2013-04-15 The book includes a broad spectrum of perspectives from different scientific disciplines both the natural and social sciences as well as practical knowledge It gives a new insight into the Carpathian mountain region Laser Scanning Applications in Landslide Assessment Biswajeet Pradhan, 2017-05-04 This book is related to various applications of laser scanning in landslide assessment Landslide detection approaches susceptibility hazard vulnerability assessment and various modeling techniques are presented Optimization of landslide conditioning parameters and use of heuristic statistical data mining approaches their advantages and their relationship with landslide risk assessment are discussed in detail The book contains scanning data in tropical forests its indicators assessment modeling and implementation Additionally debris flow modeling and analysis including source of debris flow identification and rockfall hazard assessment are also presented **Spatial Analysis in Soil Dynamics and Earthquake Engineering** J. David Frost, 1997 GSP 67 contains nine invited papers on spatial analysis in soil dynamics and earthquake engineering presented at Geo Logan 97 held in Logan Utah July 16 19 1997 Landslide: Susceptibility, Risk Assessment and Sustainability Gopal Krishna Panda, Rajib Shaw, Subodh Chandra Pal, Uday Chatterjee, Asish Saha, 2024-05-14 The book illustrates a geospatial and geostatistical approach to data analysis modeling risk assessment and visualization as well as landslide hazard management in the hilly region This book investigates cutting edge methodologies based on open source software and R statistical programming and modeling in current decision making procedures with a particular emphasis on recent advances in data mining techniques and robust modeling in torrential rainfall and earthquake induced landslide hazard **Journal of Earth System Science**, 2006 **Treatise on Geomorphology**, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth s surfaces and summaries of outstanding research questions highlight future

challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth s diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Remote Sensing and GIS A. P. Subudhi, B. S. Sokhi, Partha Sarathi Roy, 2001

Landslides A. Keith Turner, Robert L. Schuster, 1996 A guide to using the Public Record Office PRO in England for English or Welsh genealogical research providing an introduction to PRO record classes of interest to North American researchers and identifying PRO records available in North American institutions Includes advice for finding sources of emigration and immigration records with appendices on local record offices in England and Wales and useful addresses Annotation copyright by Book News Inc Portland OR

Special Report National Research Council (U.S.). Transportation Research Board, 1974

IEEE International Geoscience and Remote Sensing Symposium Proceedings, 2003

Natural Hazards Mapping- Chishitsu Chōsajo, 1994

Landslide Hazard Assessment Using GIS Mowen Xie, 2014 Landslide hazard assessment has become a major concern for the mountain area development Geographic Information Systems GIS with its excellent spatial data process ability has attracted a great attention in natural disaster assessment This book discusses the GIS based landslide hazard assessment which is one of geotechnical engineering approaches based on the physical term is considered as an acceptable method for analyzing the safety factor of the landslide and for mapping three dimensionally and probabilistically landslide hazard Combining the GIS grid based data with four proposed column based models of 3D slope stability analysis correspondent GIS grid based 3D deterministic models have been devised to calculate the safety factor of the slope Based on the four GIS based 3D slope stability analysis models a GIS based program 3DSlopeGIS has been

developed to implement the algorithm where the whole of the input data is in the same form as the GIS dataset Using the GIS grid based 3D deterministic model and taking the slope unit as the mapping unit the 3D safety factor index and failure probability are used for mapping landslide hazard The method has been applied to some case study on three dimensionally and probabilistically mapping landslide hazard Buletin Persatuan Geologi Malaysia ,2011

Whispering the Strategies of Language: An Mental Quest through **Gis Application In Landslide Hazard Analysis**

In a digitally-driven world where monitors reign supreme and instant communication drowns out the subtleties of language, the profound secrets and mental nuances hidden within words often move unheard. However, nestled within the pages of **Gis Application In Landslide Hazard Analysis** a interesting fictional value blinking with raw thoughts, lies an extraordinary quest waiting to be undertaken. Published by a talented wordsmith, that marvelous opus attracts visitors on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the psychological depths of this poignant evaluation, we shall embark upon a sincere exploration of the book is primary themes, dissect their charming publishing model, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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Table of Contents Gis Application In Landslide Hazard Analysis

1. Understanding the eBook Gis Application In Landslide Hazard Analysis
 - The Rise of Digital Reading Gis Application In Landslide Hazard Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Gis Application In Landslide Hazard Analysis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gis Application In Landslide Hazard Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gis Application In Landslide Hazard Analysis

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

- Fact-Checking eBook Content of Gis Application In Landslide Hazard Analysis
 - 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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