

The 6th International Conference on Mining Science & Technology

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

Patrick Vollmar



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