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 Research on Reasoning Mechanism of Emergency Rescue Decision Support System of Geo-Hazards Under the Conditions of Extreme Snow and Ice Disasters
 Using Artificial Neural Networks for Evaluation of Collapse Potential of Some Iraqi Gypseous Soils; Discussion About Data Mining Application in Civil Engineering Deformation Measurement Analysis; Data Acquisitions and Monitoring; 3D Reconstruction of Rock Cracks CT Image and Fractal Damage Study; Application of Geological Radar in Health Diagnosis of Nanjing Gulou Tunnel; The Development and Application of Automatic Monitoring System for Dam Seepage Development of Real-Time Soil Deformation Monitoring System (RSDMS)
 Diagnosis of Ginza Line Subway Tunnel, the Oldest in Asia, by Acquiring Data on Deterioration Indices; Exploratory Drilling with Recorded Parameters Using Wireless Technology; Information Monitoring on Surrounding Rock of Tunnel and Its Application; Mesoscopic Test Study of the Interface Between Geogrid Transverse Rib and Sand; The Application of Modified Gaussian Model in Hyperspectral Image Analysis; The Role of DInSAR Techniques in the Analysis of Ground Deformations Related to Subsidence and Landslide Phenomena
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Sommario/riassunto

Information technology (IT) is now intrinsic to many aspects of our lives, and this is no less so for the field of geo-engineering, where it is widely used. This volume presents the proceedings of the First International Conference on Information Technology in Geo-Engineering in Shanghai, September 2010. The conference brought together engineers, scientists, researchers and educators to review new developments and IT advances in geo-engineering and provided a forum for the discussion of future trends. Information technology evolves constantly, and the innovative concepts, strategies and technol
