



Rocscience International Conference 2021: Abstracts

The following abstracts have been selected for Rocscience International Conference 2021.
Please submit your technical paper based on the abstract you submitted by February 8th, 2021.

Abstract ID	Name	Abstract Title
RICAB1	Akos Torok	The Probabilistic Analysis of Steep Lakeside Slopes; Geotechnical-Geological-Hydrogeological Constraints and Numerical Analysis, an example from Hungary
RICAB2	Akshay Acharya	Modelling and Lidar Survey carried out for Identifying risks for the tunnel of Luhri Hydroelectric Project, of SJVN, Himachal Pradesh, India
RICAB3	Alan Kok Lun Kwang	Lessons Learnt from 3D Soil-Structure Modeling of a Peanut-Shaped Cofferdam for Cut & Cover Tunnel
RICAB4	Alireza Shahbazi	Numerical Investigation of the Relationship Between the Inflow Rate to the Tunnel, Block Volume and Block Surface Area
RICAB5	Anil Yunatci	Field Performance Verification of an Improved Soil Site
RICAB6	Anil Yunatci	An Integrated Seismic Hazard Framework for the Assessment of Seismically-Induced Permanent Slope Displacements
RICAB7	Antonio Serpa Freire	3D Slope Stability Analysis of a Filtered Iron Ore Tailings Dry Stacking
RICAB8	Boikago Mosimanewapula	Tunnelling in Challenging Environments – Jwaneng Mine
RICAB9	Brigid Cami	Considering Multiple Failure Modes: A Comparison of Multi-Modal Optimization and Probabilistic Analysis for a 3D Slope Stability Case Study
RICAB10	Caitlin Fischer	Correction Factor Proposed for Estimating GSI in Underground Tunnelling Environments
RICAB11	Charles John MacRobert	Can 2D Cross Sections Be Safely Extrapolated?
RICAB12	Clarence R Guanzon	Reliability-Based Constrained Differential Evolution Approach for Assessing Liquefaction Potential Induced by Soil-Structure Interaction
RICAB13	Comfort Rekopanye	Calibration of the Finite Element approach with the more advanced discrete Finite Element for Stability Analysis of Jwaneng Mine Slopes
RICAB14	Cristobal Valderrama	Factor of Safety Uncertainty Induced by DFN Stochasticity
RICAB15	Daniel Damilare Adeleke	Assessment of Asperities Geometry Influence on MSW Landfill Critical Interface Side-Slope Stability Using Probabilistic Analysis
RICAB16	Daulet Dossymbek	North Wall Stability Analysis of Vasilkovskoye Open Pit Kazakhstan
RICAB17	Dimitrios Georgiou	Numerical Investigation of the Stability of Tunnel Excavation Faces in Deep Tunnels
RICAB18	Edna Lizeth Ardila Montilla	2D and 3D Numerical Study of Geosynthetic Reinforced Soil Walls
RICAB19	Eduardo Oliveira Muguet	Hypothetical Mining Waste and Filtered Tailings Stack Break Analysis: A Case Study
RICAB20	Elias Kaspary Pooter	Modern Process for Assessing Slope Stability, Using UAV Photogrammetry, 3D Models and Rock Samples
RICAB21	Evan Jason Dressel	A Numerical Investigation on the Influence of Rockmass Parameters in Pillar Design



RICAB22	Fahmy Osman Mohammad	Kinematic and Slope Mass Rating Analysis of Road Cut Rock Slopes along Sulaimani-Qaradagh Main Road, Near Dararash Village, Kurdistan Region, NE-Iraq
RICAB23	Federic Foria	Artificial Intelligence and Image Processing in the MIRET Approach for the Water Detection and Integrated Geotechnical Management of Existing Mechanized Tunnels: Methodology, Algorithm and Case Study
RICAB24	Federic Foria	Mitigation Measures for the Protection of Working Railway Lines from Landslides: The Case Study of Altare and Santuario
RICAB25	Francisco Alonso Flores Lopez	Long-Term Settlement of Embankments Located in Very Highly Compressible Clays of Mexico Valley
RICAB26	Geordano Russo	Severe Rockburst Occurrence During Construction of a Complex Hydroelectric Plant
RICAB27	Giancarlo P Ventura	Bearing Capacity and Settlement Analysis of Closely Spaced Shallow Foundations with Various Footing Geometry on Multi-layered soils
RICAB28	Gilang Firmanda	Back Analysis for Landslide in Mine Waste Dump Slope Using Probabilistic Analysis
RICAB29	Gyula Bogoly	Comparison of the Probabilistic and Deterministic Slope Stability Analysis of a Dolomite Quarry in Hungary
RICAB30	H Omar Ulloa	Coupled Rapid Drawdown Analysis of San Luis Dam
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RICAB36	Ioannis Zevgolis	The Effect of a Low Shear Strength Zone on Slope Stability of Surface Lignite Mines: A Comparison Between Analytical and Numerical Methods
RICAB37	Ioannis Zevgolis	The Effect of Water Filling on Slope Stability of Open Pits: A Numerical Investigation
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RICAB39	Jennifer Goodale	Global Stability Assessment of Open Pit Slopes Using Limit Equilibrium and Finite Element Methods: A Comparison Between the Factor of Safety and Strength Reduction Factor
RICAB40	Johan Clausen	Consistent Evaluation of Slope Safety Factors Between Different Strength Criteria
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RICAB49	Mathias Francisco Abarca Ithurralde	Application of FOSM as a Tool to Assess Stability in Underground Excavations
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