

**APPROVED ABSTRACTS
(Listed by title)**

CODE	NAME	TITLE
11190	DANILO JOSE DA SILVA	A Comprehensive Methodology to Establish Technical Guidelines for Maximum Charge per Delay Based on Critical Acceleration in Open-Pit Mine Slopes
9252	ALEXANDRE DE LIMA OLIVEIRA	A Correction to the Generalized Hoek–Brown Failure Criterion and Corresponding Results
9255	ALEXANDRE DE LIMA OLIVEIRA	A Correction to the Generalized Hoek–Brown Failure Criterion and Corresponding Results
11221	VITOR FERREIRA MORALES DE OLIVEIRA	A Photogrammetry-to-Engraving Workflow for Laboratory Replication of Natural Rock Joints
10698	EDUARDO MATTHEWS DO REGO BARRETO	A Review of the Dilatancy Safety Factor in Salt Rocks: Criteria and Influencing Parameters for Long-Term Stability Assessment
10659	SÉRGIO AUGUSTO B. FONTOURA	A Workflow for Wellbore Closure in Salt Formations Using Chronos: From Laboratory Testing to Numerical Simulation
11013	JOÃO ARTHUR VIANA DE SOUSA	Abandonment and Decommissioning of Salt Caverns: Geomechanical Implications and a Critical Synthesis of the Literature
9133	LUIZA FAGUNDES LIMA FERNANDES	Achieving Near-Full Saturation in Porous Rocks: Integrated Apparatus, Procedures, and Acceptance Criteria
8969	THIARE PALOMA SALAZAR JERIA	AI-Assisted Geotechnical Characterization of Veins in Diamond Drill Cores
8767	HAZEL FERNANDO GONZÁLEZ RENDÓN	Analysis of a complex plane-circular slope failure
8377	PATRICIA CASAROTTO DE OLIVEIRA	Analysis of the Dependency between Crushing and Shape Index of Basaltic Aggregates
11431	TALLES BARSANTI MENEGUIM	Analysis of the Mechanical Behavior of the Salt during Production for the Brazilian Pre-Salt Hydrocarbon Reservoirs in the Santos Basin
8410	SERGIO ANDRES VILLALOBOS CIFUENTES	Application of machine learning techniques to study the correlation between UCS and V_p in sandstone
7740	CRISTIANE ALVES	Application of Photogrammetry for Enhanced Accuracy in Structural Surveys during the Development of Underground Mines: A Case Study
10318	ANDRESSA RIZZI KUZJMAN MOLLETA	APPLICATION OF THE Q-SLOPE METHOD FOR DEFINING THE SLOPE ANGLE OF A RE-GRADING OPERATION IN AN OPEN-PIT MINE
11604	SELTON DE OLIVEIRA LIMA	Applications of Microseismic QA/QC: Hazard Assessment and System Calibration at the Pilar UG Mine, Ero Brasil
9933	JOAO VITOR DE ABREU E CASTRO	Assessing 3D Directional Roughness of weak foliation planes controlling shear strength of Triaxial tests
8381	PATRICIA CASAROTTO DE OLIVEIRA	Assessment of electrical conductivity in the CO ₂ storage process in basalts of the Serra Geral Group
11602	LAURA ALVES	Assessment of Overbreak Occurrence in Development Excavations at the Pilar UG Mine, Ero Brasil

7987	MARCELA DE OLIVEIRA FLORIANO	Assessment of the Suitability of Alternative Geomechanical Classifications Applied to Rock Slopes in the Quadrilátero Ferrífero, Brazil
8466	CARLOS GONZALEZ OROZCO	Automation of Underground Void and Support Deformation Monitoring – Effective Decision-Making Tools without the Penalty of Time and Effort
11904	BRUNA SOUZA	Back-Analysis of Unplanned Dilution in Deep Sublevel Stoping: A Case Study at Cuiabá Mine
11758	GIOVANNA DERING BARDDAL	Behavior of Rock Bolts in Tunnels Excavated in Fractured Rock: Continuous vs. Discontinuous Analysis
11207	NATHALIA DE SIQUEIRA VIEIRA ASSIS	Beyond Factor of Safety: Lessons from 5 Brazilian Hard Rock Open Pit Mines on Slope Stability Design Practices
11590	LUDGER O. SUAREZ-BURGOA	Calculation of the daylight envelope in the equal-area spherical projection for plane failure of rock slopes
11321	ESTEBAN HORMAZABAL	Case studies of optimizing bench-berm design in jointed rock
9084	SARAH MCAULEY	Case Study for Design Review Methodology Applied to Strategic Mine Plans at Bingham Canyon Mine
7867	MARIA DO CARMO REIS CAVALCANTI	CHALLENGES FOR SAFE UNDERGROUND OCCUPATION
7966	MARCELA DE OLIVEIRA FLORIANO	Comparative application of SMR, SSPC and Q-Slope methods for stability analysis of a critical rock slope along BR-356, Brazil
11587	SAMUEL GUIMARÃES MINARRINI BATISTA	Comparative Evaluation of Brazilian and Direct Tensile Tests on Rocks: Technical Feasibility, Result Variability, and Apparatus Adaptation
8086	CAROLINA CRISSAFE DOS SANTOS LEMOS	Comparison between direct and indirect tensile strength of a syenogranite under different degrees of weathering
10506	VINICIUS CEZAR BORBA DE LIMA	Constitutive Equations for Salt Rocks: A Literature Review
11906	JOÃO PEDRO ALVES FRAGA	Correlation of Microseismic Clusters with Support Damage in Drifts of the Cuiabá Mine
10403	ALESSANDRO CIRONE	Creep of rock salt under cyclic loading: an overview
9024	MATIAS CLUNES SQUELLA	Damage accumulation and acoustic memory in heterogeneous subvolcanic rocks from El Teniente porphyry copper deposit, Chile
7758	ALISSON CARVALHO SANTOS BRASIL	Development of a Blast Attenuation Law Based on Handheld Geotechnical Scanning for Underground Mines
11696	GUSTAVO AUGUSTO FROES CARDOSO	Discrete Element model of the Mine-By Tunnel spalling failure employing the true laboratory strength property of the rock.
10241	FELIPE CAMPOLINA BARBOSA	Economic Assessment of Geotechnical Solutions for Safe Reopening of Open Pit Operations: Sossego Case Study
9887	SERGIO SEPÚLVEDA	Effects of global warming on natural rock slope instability in high mountain ranges: examples from Western Canada and Patagonian Andes
10577	MATHEUS STEPHANNE SOUZA	Estimation of In-Situ Stresses in Rock Masses: A Technical Approach for Brazilian Mining
10202	ANA CAROLINA DIAS BAÊSSO	Evaluation of a constitutive model for representing the stress-strain behavior of a sienogranite
10787	JUCIMARA CARDOSO DA SILVA	Evaluation of innovative destinations for the Kaolin mining waste
10669	MIRELLA GUEDES ALCOFORADO RODRIGUES	Failure Mechanisms of Roofs and Pillars in Salt Caverns: A Critical Review of Criteria and Field Evidence.

10635	TIAGO BORGES DA SILVA	Fiber-Optic Seismic Sensing for Resilient Rail Infrastructure: Monitoring with Train-Induced Seismic Waves
9323	TALITA CAROLINE MIRANDA *	FMEA Risk analysis applied to underground mining: a case study
8287	MURAT OKTAY	Geological–Geotechnical Assessment and Simulation-Based Evaluation of Discontinuity-Controlled Rockfalls for Stabilization Design along the Eruh-Findik Road Cuts
9907	ESTEBAN VINDAS ARCE	Geomechanical Behavior and Support Design for Tunnels in Volcaniclastic Rocks: Combining Empirical, Semi-Empirical, and FEM Approaches
11908	SAMUEL GUIMARÃES MINARRINI BATISTA	Geomechanical Database for Brazilian Mine Rocks: Integrating parameters, and Literature Benchmarking
8596	MARCIO FERNANDES LEÃO	Geometric Influence on Phyllite Test Specimens in Geomechanical Parameters
11956	SELTON DE OLIVEIRA LIMA	Geometry Simplification with Rhino3D to Improve Numerical Geomechanical Modelling at the Pilar UG Mine, Ero Brasil
11348	LUCAS RAFAEL NORENBORG BARBOSA	Geotechnical and Structural Characterization of a Basaltic Rock Mass for Slope Stability Evaluation in Southern Brazil
8403	SERGIO ANDRES VILLALOBOS CIFUENTES	Geotechnical characterization of a sandstone stratified rock mass for a slope stabilization project
7962	JULIO QUIJAS DE LARA	Geotechnical Risk Management in Rio Tinto Kennecott Copper mine: Integrating Zone Avoidance Technology for Safe Operations Near Historical Underground Workings
11297	EMILIO VELLOSO BARROSO	HIGH-TEMPERATURE AND COOLING-REGIME EFFECTS ON LEPTINITO GNEISS FROM HISTORICAL STONE MASONRY IN RIO DE JANEIRO
10239	ANTÔNIO MAURÍCIO NABUCO TARTARINI	History matching of subsidence in the Groningen gas field using a finite element simulator
8290	WESLEY SERAFIM MORAIS	Implementation of a Geotechnical Monitoring System in an Underground Gold Mine
8537	MARCIO FERNANDES LEÃO	In situ tests for characterizing weathered phyllites
11797	JUCIMARA CARDOSO DA SILVA	Incorporating Blast Performance, In Situ Density Tests, and Structural Adaptation for a TAU Founded on Basaltic Rock
11412	NATHALIA DE SIQUEIRA VIEIRA ASSIS	Incorporating The Temporal Component Into Thick Saprolite Slope Design: Equatorial South America Perspective
10681	AURELIO FERNANDO PAIVA SILVA	Integrated Geotechnical and Geophysical Characterization for Stress–Strain Numerical Modelling of a Rockfill Embankment on Soft Soil
7757	ALISSON CARVALHO SANTOS BRASIL	Integration of Geotechnical Data and Multivariate Methods for Predictive Analysis of Rockfalls in Underground Mines
9012	YALIN UMUR DOGAN	Integration of UAV-Based Photogrammetry and Rockfall Back Analysis for Slope Hazard Assessment in an Open Pit Mine
11315	ROBERTO IGNACIO LARREGLA MALDONADO	Isostatic disequilibrium due to large scale mining extraction
8407	GUSTAVO DE AMORIM NITSCHKE	Kinematic and deterministic Analysis of Rock Slope Stability Using UAV-Based Photogrammetry Under Direct GNSS Georeferencing
9111	VICTOR MANUEL ARÉSTEGUI MELÉNDEZ	Laboratory Framework for Salt Creep: Design of a Triaxial Rig, Instrumentation, and a Reproducible Test Protocol

9545	MUHAMMAD FAISAL WAQAR	Linking Mineralogical and Petrographic Features to the Mechanical Performance of Granitic and Mafic Rocks: Implications for Sustainable Rock Engineering
10892	GABRIEL VIANA DA SILVA	Literature review of creep parameters of halite
11672	JUAN MANUEL GIRAO SOTOMAYOR	Machine Learning-Based Constitutive Modeling for Hydro-Mechanical Behavior of Unsaturated Saprolitic Rocks in Mining Slopes
11299	EMILIO VELLOSO BARROSO	MECHANICAL BEHAVIOR OF COQUINA ROCK TYPES: IMPLICATIONS FOR CARBONATE GEOMECHANICS
9099	SAMUEL GUIMARÃES MINARRINI BATISTA	Methodology for Estimating Tensile Strength Cut-Off in Rocks Based on Cohesion and the Mohr–Coulomb Failure Criterion
10657	RODRIGO PELUCI DE FIGUEIREDO	Numerical Analysis of Static Fatigue Effect by Blasting on Natural Cavities
10109	DOUGLAS PINTO DE OLIVEIRA	Numerical Investigation of Temperature-Induced Failure Mechanisms in Rock Slopes Using FEM-DEM
10670	LARISSA BARBOSA LIMA	Numerical modeling of a reduced physical model to analyze halite geomechanics and creep behavior in salt caverns for CO ₂ storage
8766	ANUSARN SANGNIMNUAN	Numerical Simulation of Sand Production: From Laboratory Experiments to Field-Scale Predictions
11203	FELIPE CAMPOLINA BARBOSA	Open Pit Lighthouse: Geotechnical Classification and Monitoring System for Risk Management in Open-Pit Mining
8705	LUCAS BELLINI MACHADO	Optimizing Connectivity in Discrete Fracture Network Generation for Tunnel Permeability Analysis
11755	SÁVIO DE OLIVEIRA VIANA RIBEIRO	Performance evaluation of support and reinforcement elements in squeezing environments.
9524	WERNER BILFINGER	Piles in Soft Rock: review of design methods and case histories
11594	LUDGER O. SUAREZ-BURGOA	PorousMatWVrel, computer tool for calculating weight-volume relationships in porous materials
9137	LUCY BRAVO	Probabilistic Assessment of Fault Reactivation in Deep Underground Mining
9247	MAURICIO PRUDENCIO SALCEDO	Properties and characteristics of a mudrocks: an overview of the overconsolidated clay from the La Paz Formation
8280	RAUL RODOLFO POZO GARCIA	Proposed methodology for 3D numerical slope modeling based on the compliance of a technical audit of rock mechanics
9660	MAX GABRIEL TIMO BARBOSA	Quality Control and Hydraulic Performance of a Secant Pile Wall in Fractured Rock for Contaminant Containment
11324	ESTEBAN HORMAZABAL	Quantifying Uncertainty in Geotechnical Characterization at the Esperanza Sur Pit, Chile
7933	LUIS MARTIN TEJADA CERVANTES	Risk Management for Critical Mining Assets
9041	MÔNICA ALVAREZ PIRES	Rock mass classification system applicability for ferriferous natural caves stability assessment
9172	DIOGO FOLADOR ROSSI	Simplified method for probabilistic analysis of fault reactivation inducing seismicity due to fluid injection in a CO ₂ storage project
10692	WISLAYNE SOUZA ALVES	Sinkholes Above Salt Caverns: Geomechanical Mechanisms, Failure Processes, and Hazard Implications
11371	MILORAD JOVANOVSKI	Stability Challenges in Rock Slope Engineering for Gypsum Rock Masses in specific environment: Case study from Macedonian road network

7929	JIANQIANG DENG	Study on the Mechanical Behavior and Design Optimization of Tunnel Lining under Active Fault Dislocation
9836	LEANDRO CAIO BARBOSA COSTA	Sublevel Stopping in Very Poor Rock: Design and Operational Challenges. Case Study: Cerro de Maimón Mine – Dominican Republic
9144	ALYSSON PEREIRA VERAS	Technical Criteria for Selecting Tunnel Boring Machines in Tunnel Construction
9607	BRUNO OSMAR GONZATTO	Tensile deformation analysis of foliated metamorphic rocks using DIC method
7855	EMILIO VELLOSO BARROSO	TEXTURAL CONTROL ON STRENGTH AND DEFORMABILITY OF LOW-POROSITY SEDIMENTARY CARBONATE ROCKS: INSIGHTS INTO FUNDAMENTAL ROCK MECHANICS
8315	DANIEL QUISPE ARONES	The importance of geotechnical risk management in the medium - and long-term slope stability assessment – application to the Main
11311	ANNA LUIZA MARQUES AYRES DA SILVA	The scale effect in rock mass classifications
10879	EMILIO VELLOSO BARROSO	THERMAL FATIGUE AND MODE I FRACTURE TOUGHNESS DEGRADATION
7902	MARIA DO CARMO REIS CAVALCANTI	Three dimensional numerical analyzes of twin side by side highway tunnels bellow existing subway tunnel in Santiago of Chile
8359	CRISTIAN PALACIOS MIRANDA	Three-Dimensional Numerical Analysis of Convex Rock Slope Stability Integrating Finite-Element Solutions and Discrete Fracture Networks
10324	LUIS CARLOS DE SOUSA JUNIOR	Unlocking the Energy Potential of Deep Rocks through Hydraulic Stimulation
9015	STEFAN KORDIĆ	Usability of NATM in Bimrocks: a case study of Crni Vrh tunnel
10103	AURELIO SILVA AURELIO	Use of Excavation Compliance Index as a Tool To Investigate Crest and Toe Deviation in a Hard Rock Mine
10231	AURÉLIO FERNANDO PAIVA SILVA	Use of Excavation Compliance Index as a Tool to Investigate Crest and Toe Deviation in a Hard Rock Mine
11408	LUANA CLAUDIA PEREIRA	Use of machine learning for ranking geotechnical variables in rock masses
11679	GUSTAVO AUGUSTO FROES CARDOSO	Validating the Hybrid Lattice/Discrete Element model applied to Jinping marble
9471	THAYNARA CLAUDYANE CASTRO SALES	Validation of Geomechanical Parameters in Tonalite: An Integrated Study of Index Tests and Strength Assessment.