

ID Trabalho	Title
1249	Evaluation of the Stabilization of a Ruptured Slope During a Dam Decharacterization Work: Case Study
1250	Geotechnical Risk Assessment Tool for Mine Planning
1251	The Role of Governance in the Evolution of Geological Engineering Programs
1278	Use of Fuzzy Logic in Numerical Simulation for the Analysis of Hydraulic Dam Stability of Mining Tailings Facing Liquefaction
1326	Four case studies of open pit mines designed by optimal pitwall profiles
1328	A framework for integrating 3D slope stability models with open pit mine plans across various time horizons
1329	Shear strength of granular materials - Half century of literature review and applications
1331	LONG-TERM PREDICTIVE ANALYSIS OF THREE-DIMENSIONAL STABILITY IN A COPPER OPEN PIT MINE
1332	A CRITICAL GUIDELINE OF THE DEVELOPMENT OF LATTICE-SPRING-BASED SYNTHETIC ROCK MASS (LS-SRM) FOR SLOPE STABILITY ANALYSIS
1336	Structural Geology Applied to Large Open Pit Design – A Study Case
1337	Enhancing Geotechnical Alert Monitoring through Synthetic Data and Machine Learning

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1338	Eagle Pit blasted footwall liquefaction assessment at Fording River Operations
1339	Role of Transient Pore Pressures and Effective Stresses in Progressive Slope Failure
1340	Maintaining a living database for pit slope monitoring using Ground Based Radars (GBR)
1342	Use of Unmanned Aerial Vehicles (UAVs): Accuracy Evaluation and Comparison with Traditional Topographic Data Collection Methods
1343	Challenges of characterising a highly altered and variable rock mass for open pit slope design optimization
1345	TRANSITION FUNCTION FOR LINEAR TO NON-LINEAR WASTE ROCK STRENGTH CRITERIA
1346	Slope Stabilization: Challenges, Emergency Solutions, and the Proposal of Using Natural Engineering Techniques
1347	Drainage ramps as a solution for rainfall drainages in gold mining on phyllite saprolite: A Case Study
1349	TRANSITION OF THE ROCK MASS DISTURBANCE OVER THE EXCAVATED SLOPES
1350	Important parameters in a reliability analysis of earth slopes
1351	Dam stability analysis of a bauxite mine
1354	Developing a “Mapping-Monitoring-Modeling” Digital Twin for Slope Stability Hazard Response Optimization

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1355	Automated Selection of Geotechnically Significant Features with the ISI Auto-Picking Module in WellCAD for Geotechnical Engineering Applications
1357	Back-analysis of 3D rockfall trajectories
1358	Calibrating Non-Linear Shear Strength Envelope Using Unmanned Aerial Vehicle (UAV) Photogrammetry and 3 - Dimensional Back Analysis in High End Waste Dump – Applied Case Line Creek Operation, Western Canada
1359	Structure from Motion (SfM) for Geotechnical Hazard Identification and Risk Management Strategies in Weak Rocks – Applied Case Line Creek Operation (LCO), Open Pit Coal Mine in Western Canada.
1360	Empirical Correlations in Weak Rocks for Estimating the Runout Distance Using Slope Geometry as a Predictor
1361	Relating Dynamic Elastic Moduli from Full Waveform Sonic Geophysical Methods to Static Elastic Moduli in Sedimentary Rocks: A Comparison and Application for Pit Wall Design
1362	PORE PRESSURE PREDICTION METHODS AND THEIR APPLICATION TO LIHIR PIT SLOPE DESIGN
1363	Application of Observational Mining Method for the East Pit South-Wall failure, Boron Mine, CA USA
1364	Hydrogeology and Mine Water Management for the Ferrobamba Open Pit, Cusco, Peru
1365	CALIBRATION AND VALIDATION OF GEOTECHNICAL PARAMETERS BY THE USE OF INTERFEROMETRIC DATA FROM RADARS

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1366	Risk Mitigation through Design Optimization Utilizing Seasonal Effects under Arctic Conditions at the Amaruq Mine
1367	Numerical Modelling Approach to Analyze a Folded and Anisotropic Rockmass, Whale Tale Open Pit Case Study
1369	A machine learning workflow for extracting structural geology data from an underutilized dataset – RC and blasthole chip samples
1370	Emerging Methods For Pit Slope Closure Geotechnical Risk Assessments in Western Canada
1371	Evaluating the geotechnical risk of transitioning from open pit to underground sub-level cave mining
1372	COMPARATIVE ANALYSIS BETWEEN 2D AND 3D MODELING ON AN ANCHORED RETAINING WALL
1375	FAILURE TRANSIENT ANALYTICAL MODELING IN REDUCED-SCALE SLOPE MODEL INDUCED BY PRECIPITATION EVENT
1376	Comparison of 3D Back-Analysis Approaches for Rock Slopes
1377	Rock Removal and Microseismic Monitoring: A Case Study on the Removal of a Rock near a Dam
1378	Slope Stability Analysis through a Multiscale FVM - DEM Model
1379	Stability Analysis of Open Pit Slopes during Heavy Rainfall
1380	GEOTECHNICAL INVESTIGATION FOR DAM FOUNDATION AT DOLLOMITIC PHYLLITE TROPICAL SOILS IN QUADRILÁTERO FERRÍFERO

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1381	A 500M SINGLE BENCH PROJECT IN A LARGE OPEN PIT: A BRIEF DESCRIPTION ABOUT ALL STEPS AND LEARNINGS
1382	INFLUENCE OF THE SEASONAL GROUNDWATER RECHARGE IN THE STABILITY OF AN OPEN PIT IN ITABIRA, BRAZIL
1383	THE USE OF WASTE ROCK IN GEOTECHNICAL PROJECTS: THE CHALLENGE OF ACHIEVE THE GEOTECHNICAL PARAMETERS
1385	IMPACT OF STRUCTURAL EVOLUTION ON GEOTECHNICAL DESIGN DECISION MAKING
1387	Runout Estimates - Footwall Failures
1389	An adaptive Discrete Element Method for stability analyses of hard rock slopes
1390	Integration of geotechnical risks into corporate risk platforms
1392	Modeling Stability and Run-out Behaviour of Tailings Dams with Focus in the Material Point Method
1396	Back-Analysis for More Reliable Mine Plans at Pueblo Viejo Gold Mine
1399	Case Study: Risk Management for a Pit Slope Instability Through Failure Above a Primary Haul Route
1400	Geotechnical risk management system for transportation corridors
1401	Advantages of increased data for InSAR monitoring: a case study over the Malmberget Mine

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1404	Accurate vocabulary and a logical sequence to describe geological structures and rock fabrics
1405	Geotechnical Property Prediction using Artificial Intelligence and Measure-While-Drilling Data
1406	FRAMEWORK TO CAPTURE AND PREDIDCT OPEN PIT MINE FAILURE RUNOUT
1407	Optimization of Pit Slopes in Weak, Altered and Structurally Controlled Rock Masses with Large Scale Structures
1408	Laboratory testing for defect shear strengths – A case study comparing natural defects and saw-cut samples
1409	1. The use of variable Design Acceptance Criteria at Simandou for the geotechnical slope design of HME2 access road in challenging and sensitive terrain considering technical and ESG design constraints.
1411	ANALYSIS OF WALL FAILURE TRIGGERED BY EXTERNAL FACTORS - SIGNIFICANT RAINFALL AND BLASTING EVENT, IN MINING SITE BY UTILIZING GROUND-BASED 3D REAL APERTURE RADAR
1412	DISCONTINUITY ORIENTATION DETECTION VIA 3D TRACE NETWORK ANALYSIS IN ROCK MASSES
1414	IMPACT OF GEOSYNTHETIC TENSILE STRENGHT ON EMBANKMENTS OVER SOFT SOILS USING DIFFERENT LIMIT EQUILIBRIUM APPROACHES
1416	Automatic detection and characterization of discontinuities from televiewer data using modern computer vision techniques

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1418	Critical Threshold Curves for Landslides in the Rio de Janeiro City by Long Term Rainfall Monitoring
1421	DAN3D Runout Analysis of the Leo Failure at the Bingham Canyon Mine
1422	A semi-quantitative discontinuity ranking approach to assist rock slope analysis
1423	A mine bench design tool that considers excavation practices
1424	Gap analysis of 3D pore pressure field values against 3D numerical predictive results to improve Slope Stability
1427	Implementation of Effective Depressurization Program in Structurally Complex Jwaneng Diamond Mine
1431	SLOPE STABILITY ANALYSIS IN RESIDUAL SOIL: A DISCRETE ELEMENT METHOD APPROACH
1432	Holistic geotechnical reconciliation
1434	Natural Landslide Analogues as Benchmarks for Long-Term Pit Slope Post-Closure Performance
1435	Early warning system for a slope stabilization construction project in New Caledonia
1436	Slope Monitoring – The use of slope stability radar to successfully manage Kolomela mine’s biggest slope failure
1437	Innovation in the collection of near-surface hydrogeological and ground deformation data in an active mining zone

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1439	UTILIZING VELOCITY RATIO ALARM AT GROUND-BASED RADAR AS A NOVEL APPROACH TO ADDRESS LINE OF SIGHT LIMITATIONS IN STRIP MINES
1441	Overbank Risk Management in a Multi-Phase Open Pit Mining Environment
1443	ATTENUATION OF VIBRATIONS IN ROCK BLASTING TO ALLOW OPERATIONS CLOSE TO SENSITIVE STRUCTURES IN IRON ORE AT PARÁ
1446	A New Approach of Blast Analytics Data Using Drone Technology For Optimal Safety And Productivity
1448	EVALUATION OF ROCK BLASTING VIBRATIONS FACED WITH DAMS IN IRON ORE AT PARÁ
1449	Guidelines for Open Pit and Waste Dump Closure
1450	Implementation and Slope Monitoring for Mine Closure
1451	Slope design curves with machine learning
1452	The Use of Twin Beacon Infrastructure using CORS GNSS to transfer adjustment corrections to non-piled Geodetic Monitoring Stations.
1453	The Use of GIS Tools and Dashboards to Display and Report GeoMoS and CORS Monitoring Systems Performance using Data Directly from the SQL Database Server.
1455	Adapting to unexpected conditions: mitigation of a highly altered zone encountered during mining of the A21 pit
1456	Slope stability and landslides features in the area of Jurassic Flysch formation in the Western Caucasus, Russia

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1457	The implementation of slope depressurization at the Saramacca Pit and early operational insights
1458	Application of Maintenance and Reliability Engineering in Geotechnical Assets
1460	Depressurization of Massive Mudstone at Orapa Diamond Mine
1462	Operational Slope Stability Risk Management for Large Open Pits at the Mount Milligan Mine – a Case Study
1463	Sensitivity analysis of rock slope stability under water level variation using 3D Material Point Method (MPM) simulations
1464	A machine learning approach to automating televiewer feature picking and classification
1465	Automating the identification and classification of brittle faults and fault damage zones from drill core photographs using machine learning
1466	Predictive joint patterns in folded layered sequences
1467	Effects of Wet Season Precipitation on Groundwater Inflows and Pore Pressures in the Pit Highwall
1468	Creep Behavior Analysis in Bauxite Tailings: A Numerical Approach
1469	HORIZONTAL DRAIN HOLES DEPRESSURISATION EFFECTIVENESS – DESIGN OF A PILOT TEST
1470	Tasiast Geotech Reporting and Database Management System

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1471	Water management in shallow aquifers and its Slope Stability implications – Codelco Chile
1472	Pit Wall Compliance – Process & Process Refinement
1473	Long term deformation analysis of vegetated slopes with GBSAR
1474	Validation of a new atmospheric correction algorithm for real aperture radars at Bingham Canyon Mine
1476	The use and abuse of inverse velocity in predicting time-of-failure in slope monitoring. A review of mine experiences and analysis of slope failure case studies.
1477	Correlation analysis between prism and laser scanner deformation movements
1478	Monitoring Procedure and Alarm Configuration for Slope Stability Monitoring on a Gabion Retaining Wall
1479	QA/QC methodology for automated piezometer installation in geotechnical structures
1482	EQUIVALENT GEOLOGICAL STRENGTH INDEX APPROACH WITH APPLICATION TO ROCK MASS SLOPE STABILITY
1483	Back-analysis of microseismic monitoring records from a mine slope failure in Brazil
1484	Development of advanced green monitoring solutions providing reduced environmental footprint and delivering improved maintenance outcomes

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1485	Impact of Shear Surface on the Slope Stability in Soft Iron Mines in Northern Brazil
1486	A risk-based approach for first line assurance of pit slope management and slope designs
1487	Development of the Nonlinear Extended MC Envelope for Unsaturated Soils and Implementation in Plaxis 3D LE: Part 1
1488	Characterization of surface vibrations generated by a drilling activity near a tailing dam: a case study in Barnabé Dam
1489	Constitutive Models of Water Retention Curves and Shear Strength from Characterization Parameters Using Machine Learning for Unsaturated Weak Rocks
1492	How to tailor packer isolation hydraulic tests to the project site and aims
1493	Risk Based Design Acceptance Criteria for Closure of Waste Dumps
1495	Design Assessment, Mining Strategy, and Setback Criteria for Excavation of Steep Natural Escarpments
1496	Geotechnical Assessment of Blasting Impacts on Slope Conformance in Mining Operations: A Case Study in the Pilbara Region
1497	Liquefaction-induced flow failure evaluation: a case study of drained stacking of granular tailings
1498	STAKEHOLDER ENGAGEMENT: REVEALING SAMARCO'S GEOTECHNICAL MONITORING AND INSPECTION CENTER

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1499	COMPARATIVE ANALYSIS OF SURFACE DISPLACEMENT TECHNIQUES: INSAR INTERFEROMETRY AND ROBOTIC TOTAL STATION
1500	DISPLACEMENT MONITORING METHODS: COMPARATIVE STUDY FOR DAM DECOMMISSIONING
1504	Gongo Soco open pit history case and closure project
1505	Dispelling Concerns Over Using 3D LEM for Open Pit Slope Stability
1506	Calibration of Toppling Slope Failures with Discrete Fracture Network Finite Element Modeling: A Case Study
1508	Definition of groundwater flows using geophysical methodology "Willowstick"
1510	Geomechanical Behavior of the "Rock Bridge" Between Two Large Open Pits
1514	ASPECTS TO CONSIDER ON DECHARACTERIZATION DESIGNS OF MINING GEOTECHNICAL STRUCTURES
1515	Unraveling a Slope Failure Threat – Practical Methodologies to Result in A Reliable Mitigation Plan
1516	Evolution and Management of Large-Scale Instability using Pit Depressurization at Freeport-McMoRan Bagdad Mine
1518	Machine Learning Models for Runout Analysis of Waste Dumps
1519	NATIVE AND NON-NATIVE PLANT SPECIES COCKTAILS FOR MINE PIT SLOPES RECLAMATION

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1520	Using Multiple Data Sources to Develop a Structural Geotechnical Model for the Santa Rita Open Pit Mine, Brazil
1524	Slope Stability Analysis, Cut 2 Mine Design, Orapa Mine AK1 Pit
1525	Hard rock groundwater depressurization responses and observations at Rainy River Mine, Ontario, Canada
1526	Prediction of time slope failure with stochastic processes: A case study in Pará de Minas, Brazil
1527	Comparison of Thermal Video and Doppler Radar Technology for Rockfall Detection
1529	APPLICATION OF THE DOPPLER PRINCIPLE FOR EMERGENCY MANAGEMENT IN GEOTECHNICAL MONITORING SCENARIO - ALARM MODEL DEFINITION
1530	Methodology for defining reference limits for monitoring open pits using ground based radar.
1532	Technological advances in rockfall protection in open pits. High speed impacts with spin.
1533	SLOPE DESIGN AND STABILITY ANALISYS FOR THE FINAL OPEN PIT OF FAZENDA CHAPADÃO MINE
1534	SLOPE DESIGN AND STABILITY ANALISYS FOR THE FINAL OPEN PIT OF BOA VISTA MINE
1535	COMPARATIVE ANALYSIS BETWEEN THE INVERSE DISTANCE WEIGHTED AND NEAREST NEIGHBOR METHODS TO ESTIMATE THE BLOCK MODEL

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1536	ROCK MASS CLASSIFICATION AND COMPARATIVE ANALYSIS BETWEEN RMR WEAK ROCK SYSTEM AND WEATHERING INDEX
1537	A NOVEL METHOD OF EVALUATING FRACTURED ROCK DIFFUSIVITY AND MOISTURE LOADING IN AN OPEN PIT MINE
1538	Monitoring Data Back Analysis of Successful Completed Mines in Greater Tom Price
1539	The Geological Model: A Key to Risk Management in Slope Stability
1540	Evaluating the Effects of Matric Suction on the Occurrence of Flow Liquefaction in Unsaturated Soils
1541	Reducing Design Uncertainty by Better Handover to Mine Planning
1542	COMPARISON OF METHODOLOGIES FOR ESTIMATING THE UNDRAINED RESISTANCE OF A TROPICAL RESIDUAL SOIL FROM CPTU TESTS
1543	In situ test's, sample collection and laboratory test in High-End Waste Dumps – Practical Case Study Line Creek Operation (LCO), Western Canada
1544	Guidelines for the Geotechnical Assessment and Protection of Environmentally and/or Culturally Sensitive Structures Near Open Pits - Large Open Pit (LOP) research project
1545	Quantitative Three-Dimensional Finite Element Modelling of Geotechnical Instability in Low-Wall of a Bowen Basin Coal Mine: An Innovative Methodology for Representing the Passive-Active Wedge Mechanism in Dragline Dump Creep Movement Case
1546	Detrital rock mass shear strength variability

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1547	A Proactive Strategy to Manage Changing Rainfall Patterns for Slope Stability at Freeport-McMoRan Inc.
1548	Statistical analysis of kinematics-based failure forecasting methods
1549	THE EFFECTIVE USE OF BLOCK MODELS IN MINE PLANNING – A CASE STUDY IN GEOTECHNICAL RISK MANAGEMENT
1550	The importance of geological understanding in the development of a geotechnical model and its impact on mine planning
1551	Characterisation and Geotechnical Analyses of Lithium-Rich Cornish Granites
1552	InSAR data for monitoring and operational support to mine instability management: case study Turangga Resources coal mines
1553	Suggested method for identifying geotechnical maturity on tridimensional models for open pit in tropical regions
1554	Tridimensional Model of a Mine in Northern Brazil: criteria applied to the components of a geotechnical model
1555	DInSAR APPLICATION FOR MONITORING LOW WALL DISPLACEMENT IN OPEN PIT COAL MINING
1556	Comparison between ANM Resolution 95 and the guidelines set by the Global Industry Standard for Tailings Management.
1557	The three-dimensional modeling of geological-geomechanical compartmentalization of filtered stacked tailings
1558	Analysis of susceptibility to mass movement in the vicinity of mining operational areas

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1559	Methodology for defining slip surfaces used in the estimation of seismic coefficients for pseudo-static slope stability analysis in dams.
1562	Virtual Reality Applied to Geotechnics: Concept and Practical Implementation in a Geotechnical Monitoring Center
1565	A Review of Achieved Bench Configuration Based on Geology, Blasting, and Operating Practices
1567	Improved Success in Siting Pit Dewatering Boreholes using Interpretation of Integrated Geoscience Datasets at Jwaneng Mine, Botswana
1568	INVESTIGATIVE STUDY AND GEOMETRIC SUITABILITY OF A DUMP LOCATED IN THE QUADRILÁTERO FERRÍFERO
1572	Full Pit Wall Stability Analysis of Bagdad Mine using FLAC3D
1576	Geomechanical characterization of a highway slope in Ouro Preto (MG)
1577	HYPOTHETICAL FAILURE OF A FILTERED TAILINGS FACILITY COMPARING TWO AND THREE-DIMENSIONAL STABILITY ANALYSES
1578	Management of Large-Scale Instability at Freeport-McMoRan Sierrita Mine
1580	Case Study: Open Pit Design Integrating Geophysical, Geochemistry and 3D Stability Analysis - Barro Alto Mine
1581	A comparison of machine learning and manual geotechnical logging using RQD and Fracture Frequency
1583	Management of Large-Scale Instability at Freeport-McMoRan Safford Mine, Dos Pobres Pit

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1586	Evolution and Management of Large-Scale Instability using Pit Depressurization at Freeport-McMoRan Bagdad Mine
1587	A Comparative Analysis of Constitutive Methods for Slope Stability using 2D and 3D Models from an Open Pit Study Case
1589	Comparison of methods for estimating seismic acceleration for use in dams.
1590	PUMPING WELL HEIGHTNING TECHNIQUE IN A MINE WASTE DUMP
1591	Using Coupled DFN and LE Analysis to Improve Slope Design Reliability
1592	Seismic analysis review and design implications for Open Pit slopes: two practical cases in the Andean region
1593	Integration and analysis of multiple slope monitoring technologies for improved risk management at an Australian Gold mine
1595	3D/2D risk analysis based on the geotechnical behavior of a slope in residual gneiss soils – Influence of water table fluctuation (Case Study)
1596	Best Practices for Collecting, Interpreting, and Processing Structural Data from Televiewer Survey
1597	Including Fault Structures in Your Slope Stability Analyses – A Practical Implementation Approach
1598	Minimizing Risks of Foliation on Bench and Inter-Ramp Design Implementation
1600	DEFORMATION MONITORING OF CIVIL ROADWAYS WITH LIDAR: A NOVEL APPROACH

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1601	Geotechnical Modelling Techniques Used to Guide Mine Planning and Slope Depressurization Requirements in a Deep and Irregular Saprolite Profile
1603	A case study on slope stability radar timeseries classification using machine learning
1604	Rockfall Detection and Risk Management Using Doppler Radar Technology
1605	Predictive Slope Behavior Integrating 3D LE Modelling and Slope Stability Radar Data
1606	Integration of Terrestrial Interferometric Monitoring, Prisms and GNSS in Structurally Controlled Slope
1607	Directional Drilling Solutions for Highwall De-Pressurization
1608	Case Study: Uncertainty And Probability in Design Acceptance Criteria - Serra do Sapo Open Pit
1609	Is It Time for an Evolution in Design Acceptance Criteria?
1610	Methods for development of design acceptance criteria for open pit slope optimisation
1611	Probability of Failure for large pit slopes – A study highlighting the need for standardizing the approach to estimation
1613	Estimate of the rock mass deconfinement as a slope instability triggering factor at the Escondida copper mine North-East wall
1614	Geotechnical monitoring of a large open cut coal mine in a complex system

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1615	Optimising blasting parameters to improve compliance to mine design - Case Study
1616	A method to assess and communicate the economic risk of potential pit slope instability
1617	EVALUATION OF THE ENVIRONMENTAL IMPACTS OF THE ENERGY EFFICIENCY PROGRAM IN PT XYZ'S TIN PRODUCTION USING THE LIFE CYCLE ASSESSMENT METHOD
1618	3D kinematic analysis to support the design of an in-pit facility at Freeport-McMoRan Cerro Verde mine
1619	Incorporating Structure Waviness in Slope Stability Analysis of Anisotropic Rockmass Units
1621	Structural mapping for geotechnical purposes from laser scanning point clouds at the Damang open pit, Ghana
1622	Atalaya TSF monitoring: data correlation, modelling, and best practices
1623	Depressurization of slopes in the mining face at a geological contact zone due to faulting. Case study: Area 151 of the Barro Alto Nickel Mine.
1624	Potential precursors identification in Open Pit areas with advanced InSAR techniques: November 9th, 2021, Codelco Ministro Hales East Slope Study Case
1625	Disposal of Sterile Material in Pit Bottoms - A Good Practice Adopted by Anglo American in the state of Goiás.
1626	Monitoring data analytics to support the identification and management of slope instabilities: the experience of a copper operation.

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1627	Enhancing Geotechnical Monitoring for Early Detection of Slope Stability Risks: A Case Study at Oceana Gold's Haile Mine using Wide Area InSAR
1628	Risk Management Plan and Communication of an Iron Ore Mine
1631	The influence of multipath interference in ground-based radar data – A case study in an iron-ore open-pit mine
1632	INSIGHT INTO PACKER TESTING TECHNIQUE THROUGH NUMERICAL MODELLING; APPLICATION, EFFECTIVENESS, AND LIMITATIONS
1633	THE USE OF CORNER CUBES IN MONITORING GEOTECHNICAL STRUCTURES BY INTERFEROMETRIC RADARS
1634	Assessing Debris Flow Potential and Actual Occurrences during the Heavy Rainfall Events of February 2023 in São Sebastião: A Pipeline Operator Company's Perspective.
1635	EFFECTIVE GEOTECHNICAL RISK MANAGEMENT THROUGH PROCESS DRIVEN AND SPATIALLY ENABLED INFORMATION MANAGEMENT SYSTEMS
1636	The correlation of Design Acceptance Criteria and risk tolerance approaches for risk assessment of pen pit slopes.
1638	Comparison of Mohr-Coulomb and CNI Method Rock Mass Strengths for Evaluation of Coal Mine Slope Stability in 3D
1639	Mapping of Geotechnical Hazards for Risk Management in Open Pit Slopes
1640	ROCKFALL RECONCILIATIONS - DETERMINING MINIMUM EFFECTIVE BERM WIDTH FOR JWANENG MINE

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1641	Analysis of Damage Mechanisms due to Detonation in Open-Pit Mine Slopes and the Influence of Geotechnical Engineering in Rock Blasting Improvement.
1643	Data-Driven Approach to Tailings Storage: Geotechnical Characterization of Iron Ore Tailings in Brazil
1645	A Suggested Methodology for Pore Pressure Model Reliability Check –Two Case Study
1647	Three-dimensional stability analysis of urban slopes
1648	Risk management in paralyzed mines: case study of Serrinha Mine
1649	Assessing Structural Control on Bench Design, Mogalakwena Mine
1651	Analysis of data unavailability in monitoring tailing dams by robotic total stations
1652	Development of an Observational Geotechnical Monitoring Plan for Critical Mine Infrastructure at Rio Tinto IOC.
1654	GEOTECHNICAL RISK MAPS OF OPEN PITS WITH APPLICATION OF GEOLOGICAL-GEOTECHNICAL ANALYSIS AND RISK MANAGEMENT METHODOLOGIES
1655	Acquisition of discontinuity parameters through digital models of slopes obtained with Drone
1656	Effects of Deformation of Massifs “in situ” on the Monitoring Results Performed by Robotic Total Stations in Dams
1657	Large Open Pit Stability: 3D Numerical Modeling Challenges

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1658	Mapping of excavated and natural slopes using aerial photogrammetry and associated tools
1660	Slope performance monitoring and management at Cerrejón Mine, a large coal open pit – La Guajira, Colombia
1661	Large Open Pit Stability: Characterization for 3D Numerical Modeling
1662	Modeling! A tool, not a crystal ball. Or is it?
1663	Equipment surcharge loads and induced vibrations for slope stability analysis
1664	Considerations on Joint Properties in Finite Element Modelling of Rock Slopes
1665	Using Horizontal Drains for Mine Dewatering and Pit Slope Depressurization
1666	ROCKFALL MONITORING AND RISK MITIGATION USING IDS GEORADAR ROCKSPOT DETECTION AND TRACKING SYSTEM IN BHP MINERA ESCONDIDA, CHILE
1667	SLOPE ANGLE AND TOPOGRAPHY ELEVATION OF IRON MINELANDS IN CARAJÁS MINERAL PROVINCE
1668	3D Back-analysis of saprolite slope in Minas Gerais
1669	Survey monitoring with an imperfect reference network – Is it worth it?
1670	Structural characterization and stability analysis of a weak siltstone slope in the Itajaí Valley, Southern Brazil.
1671	Pre-Empting and Mitigating Risk: Development of a Semi-Quantitative Rockfall Hazard Rating Map for the Los Bronces Road System

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1672	ROCKFALL DATA CALIBRATION AND HAZARD MANAGEMENT USING NEW IDS GEORADAR ROCKSPOT DETECTION AND TRACKING SYSTEM IN ANTOFAGASTA MINERALS MINERA CENTINELA, CHILE
1674	Building a Safer Tomorrow: Leveraging Automated Geotechnical Monitoring for Effective Risk Management in Brazilian Hazardous Areas
1676	A case study of an automatic long-term landslide monitoring in Brazil: Challenges and Learnings
1677	Identification and risk assessment of macroblocks in open pit situated in hard rock. Case study.
1678	Criteria for Decommissioning of Dam I in Brumadinho-MG: A Case Study
1679	Maximising the value of geotechnical core logging
1680	MONITORING DATA IN A SINGLE APPLICATION IN THE QUADRILÁTERO FERRÍFERO.
1681	Monitoring of erosion processes via three-dimensional modeling from data from remote sensors onboard autonomous vehicles
1682	Slope stabilization at the Águas Claras Mine access road
1683	2D and 3D Open Pit Stability Analysis
1685	GEOMECHANICAL MODELING BASED ON THE DEFINITION OF GEOMECHANICAL DOMAINS IN THE GEOLOGICAL MODEL
1686	Numerical Analysis and Three-Dimensional Modeling Applied to an Open-Pit Mine Slope Stability Project in the Quadrilátero Ferrífero

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1687	Characterization of Weak Talc Layers and Implications on Open Pit Slope Design
1689	Radar monitoring case study in a mine sector without operations
1690	AI-powered Graphical Data Interpretation for Enhanced Reportability: Integrating GPT with SHMS Platform
1692	Guidelines for Defining Discontinuity Properties for Open Pit Stability Analysis with Limited Structural Data
1693	Implicit 3D geomechanical modeling and numerical analysis for open pit structures with hypothetical failure studies.
1694	Enhancing Geotechnical Monitoring Productivity with the SHMS: Real-time Alerts, Automated Reporting, and Customizable Dashboards
1695	MECHANISMS OF FAILURE IN FOLIATED ROCK SLOPES
1697	Slope performance on weak rocks in a truckless mining system: Serra Sul Iron Ore Project, Brazil
1698	The FMEA methodology applied in the risk map for an open pit mine
1700	Practical Applications of a Machine Learning Function for Slope Stability
1701	GEOTECHNICAL PARAMETERS PREDICTION THROUGH GEOPHYSICAL LOGGING DATA USING MACHINE LEARNING
1702	A methodology to estimate probability distributions of intact rock and rock mass strength properties

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1703	IMPLEMENTATION OF A 52-WEEK PREVENTIVE MAINTENANCE PLAN FOR GEOTECHNICAL STRUCTURES AT A CLOSURING MINE
1704	Use of ground support and narrow benches to optimize the East Wall at Bingham Canyon Mine
1705	Integration of geophysics, InSAR and radar data for mining slopes
1706	Three-dimensional modeling of geological-geomechanical compartmentalization of a waste pile in Quadrilátero Ferrífero, Minas Gerais, Brazil: A Case Study.
1707	Slope performance monitoring and risk management at Merian mine, Maraba pit; Sipalwini, Suriname
1708	Jwaneng Mine Double Bench Configuration: Cut 9 Slope Design Optimization
1709	GEOTECHNICAL RISK MANAGEMENT OF SLOPES OF THE MINAS-RIO SLURRY PIPELINE
1712	MONITORING DISPLACEMENTS IN SEDIMENT DAMS IN QUADRILÁTERO FERRÍFERO: DIFFICULTIES AND LESSONS LEARNED
1713	Freeport-McMoRan Case Study Regarding the Management of Potential Slope Instability Within the Western Copper Pit Morenci Operation, Arizona.
1714	Geotechnical Risk Management and Mitigation Strategies in the Jwaneng Mine: A Case Study of Western Cut 9 pushback
1715	A COMPARISON OF STATIC VERSUS DYNAMIC BACK ANALYSIS OF AN OPEN PIT MINE SLOPE

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1717	Evaluation of RocSlope, 3D Stability software, using real world instabilities from Bingham Canyon Mine
1719	SLOPE STABILITY IN SOIL-EXCAVATED UNDERGROUND MINING PORTALS
1720	Mining Closure Guidelines and Corporate Sustainability: A discussion based on the Brazilian context
1723	OPTIMIZATION OF ROCK BLASTING WITH THE APPLICATION OF PRESPLIT TECHNIQUES USING GEOTECHNICAL-GEOMECHANICAL ANALYSIS OF THE ROCK MASS IN AN OPEN PIT IN ITABIRA DISTRICT, BRAZIL
1725	Comparative Analysis of WARIMAX-GARCH and DBSTAR Models for Geotechnical Instrument Time Series Prediction
1726	EMPIRICAL CORRELATION OF UNIAXIAL COMPRESSIVE STRENGTH AND P- AND S-WAVE VELOCITIES ON METAMORPHIC ROCKS
1727	Influence of the Schmidt Sclerometer on microcracks formation
1728	REDUCING TIME AND COSTS IN DETERMINING SOIL SHEAR STRENGTH: A MACHINE LEARNING APPROACH
1730	Probabilistic slope stability analysis targeting a Reliability-Based Design Acceptance Criteria
1731	3D or not 3D; does 2D Slope Stability Analysis sufficiently represent Toppling Failure in a Multi-Layer Rock Mass?
1732	ROCK MASS CLASSIFICATION CONSIDERING THE DISCONTINUITIES AND STRESS-INDUCED BREAKS (DISCINGS)

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1737	Assessing Rainfall-Induced Debris Flows: A Computational Approach for Hazard Analysis and Simulation
1738	Geotechnical Stability Analysis of Rock Slopes in an Open Pit Iron Mine: A Case Study in Minas Gerais, Brazil
1739	Pathway to value realization through effective rockfall management at Mogalakwena
1740	Dump classification according the WSRHC system: aspects of structures in Brazilian southeastern region
1744	3D Limit Equilibrium Analysis for a Closure of an Open Pit
1745	Enhancing the Integration of Numerical Modeling and Geotechnical Monitoring: A Cyclical Approach
1746	Improving Mining Slope Stability Analysis: The Role of Calibrated 3D Numerical Models
1748	Geotechnical Analysis and Reliable Results: The Role of Free Software in Geological Data Gathering
1749	Comparison of two slope stability analysis methods using a well documented and studied open pit mine
1750	Analysis of water level variation with lithology properties, and seismic activity on rock slope stability
1752	Predictive Mining Slope Stability Analysis: Impact of Geometrical Changes in Slope Behavior

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1753	Methodology for Defining Displacement Control Levels in Large Embankments through 3D Stress-Strain Analysis
1754	The importance of TARPs (Trigger Action Response Plan) - Interaction, Communication Flow, and Deviation Response
1755	On the evaluation of potential failure mechanisms in slopes at the inter-ramp level in Open Pit mining
1756	Application of InSAR for Early Indication of Mine Slope Instability: Back Analysis of Satellite Displacement Data
1757	STUDY OF THE EFFICIENCY OF INTERNAL DRAINAGE SYSTEM IN TAILINGS PILES
1759	PRODUCTION OF BIOMATS FROM PLANT SPECIES NATIVE TO AMAZON TO ECOLOGICAL RESTORATION
1760	Integration between anti-collision system and radar monitoring
1761	Climate projections for the future of Vale's mining chain
1762	Slope Monitoring along the Vitória-Minas Railway using Tiltmeters with Satellite Communication
1764	Application of synthetic aperture radar in monitoring a tailings disposal pile in operation
1765	PRACTICAL GUIDANCE ON THE USE OF HORIZONTAL DRAINHOLES FOR PIT SLOPE DEPRESSURIZATION
1766	Case study of slope open pit recovery plan in Quadrilatero ferrifero

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1768	QUANTIFYING UNCERTAINTY IN GEOTECHNICAL CHARACTERIZATION AT THE ESPERANZA SUR PIT, CHILE
1769	DAM CLOSURE DESIGN OF A LINERED GOLD TAILINGS STORAGE FACILITY IN BRAZIL
1771	Geotechnical properties and stress strain behavior of waste rock material from quadrilatero ferrifero formation
1772	Assessing information maturity of waste and tailings stockpiles: a methodology for geodata analysis
1773	FILTERED DRY STACKED TAILING ANALYSIS UNDER TROPICAL CLIMATE
1775	SLOPE STABILITY ANALYSIS USING PROBABILISTIC APPROACH
1776	Comparison of Catch Bench Design Methods for Slope Optimization in Open Pit Mines
1777	Rock Mass Damage and Water Flow Changes Around Open Pits
1778	Geomechanical Modeling of Tieback Wall
1779	Improving slope design reliability through characterization of large-scale lithological contacts
1780	ROCK SLOPES STABILIZED WITH ROCK NAILING COMBINED WITH HIGH-TENSILE STEEL WIRE MESH: CASE STUDY OF TWO INSTRUMENTED SLOPES
1781	RAILWAY SLOPE INSTABILITY SOLVED WITH DEEP DRAINAGE SYSTEM

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1782	METHODOLOGY FOR DETERMINING CONTROL LEVELS FOR STACK DESIGNS: INSTABILITY FAILURE MODE
1784	Methods for evaluating stockpile runout: applicability and limitations
1786	ROCKFALL HAZARD IN FUNIL RAILWAY FACILITY: SLOPE MAPPING, ROCKFALL SIMULATIONS AND DESIGNS FOR ROCKFALL BARRIER AND STABILITY SOLUTIONS
1789	Robotic Total Station Monitoring: Measurement Methods Applied in Geotechnical Environments
1790	Numerical Modelling of Fault Structures and Anisotropy - Just How Different Can the Answer Be?
1791	STABILITY ANALYSIS OF A RAILWAY EMBANKMENT SLOPE IN THE MUNICIPALITY OF QUATIS, RIO DE JANEIRO
1792	Fluid-mechanical parameter assessment for predicting and modeling pore pressure change in pit slopes
1793	Revisiting Rockfall Catch Bench Design Criteria: Test Results from Bald Mtn Mine, NV
1794	Brittle failure prediction using GbSAR radar in an open pit: A case study in a copper mine in northern Brazil
1795	Development and Validation of Slope Design Charts for the Open Pit at Escondida Mine
1796	Slope deformation analysis under different rock mass deformability assumptions

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1797	New tecnologis for safe and quality geotechnical drilling in fundation of embackment and piles tailings
1798	Would the Quadrilátero Ferrífero region be susceptible to catastrophic flow-like mass movements?
1799	Analyzing the Anisotropic Mechanical Behavior of an Open-Pit Iron Ore Mining Site through Synthetic Rock Mass Modeling Approach
1800	INFLUENCE OF PSEUDO-STATIC ANALYSIS ON THE VERIFICATION OF SLOPE STABILITY IN TAILING DAMS
1801	Case Study of Open Pit Drainage Diagnosis Using the HEC-RAS 2D Modeling
1802	Use of script languages in open pit mine geotechnical assessment stages: optimization and reliability
1804	ANALYSIS OF THE STABILITY CONDITIONS OF AN OPEN PIT IN THE QUADRILÁTERO FERRÍFERO/ MINAS GERAIS - BRAZIL
1805	THE IMPORTANCE OF GEOTECHNICAL MONITORING DATA INTEGRATION ON THE SLOPE PERFORMANCE ANALYSIS
1806	Assessment of Superficial Drainage Effectiveness in Open Pit Mines Through the Development and Application of Automated Routines
1807	Geotechnical risk evaluation of mine waste stockpiles: instability potential assessment, hypothetical consequences, and production impact
1808	Case study of identification and monitoring of slopes in industrial and administrative mining areas in the Quadrilátero Ferrífero

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1809	Three-Dimensional Analysis for the Salares Norte open pit mine by Numerical Modelling
1810	ROCK MASS CLASSIFICATION AND ANALYSIS APPLIED TO AN URBAN SLOPE IN BURITIS NEIGHBORHOOD, BELO HORIZONTE, MINAS GERAIS - BRAZIL
1811	GEOTECHNICAL CARTOGRAPHY FOR RISK MANAGEMENT: AN APPLICATION IN THE FEDERAL DISTRICT AND STATE OF GOIÁS
1816	CBMM'S INTEGRATED MONITORING CENTER: APPROACH ON ITS EVOLUTION AND LESSONS LEARNED
1817	Development and calibration of numerical model in FLAC3D for the Escondida mine
1818	LARGE SLOPE INSTABILITY IN AN OLD MINING FACILITY
1820	Depressurization Targets Based on 3D Slope Stability Analysis at the Escondida open pit
1821	ROCKFALL BARRIER PROTECTING A RAILWAY TERMINAL
1822	Current state and limitations of 3D continuum models for slope stability using Abaqus, octree meshing and IUCM
1826	Development of a 3D GSI Model Applying the Cai 2004 Method to Borehole Data at the Escondida Mine
1827	SLOPE STABILITY STUDY USING DETERMINISTIC NUMERICAL ANALYSIS AND SMR GEOMECHANICS CLASSIFICATION
1830	SLOPE STABILITY DESIGN AT THE LA COIPA PIT, CHILE

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1831	Geological Analysis of Left Abutment Stability: Rock Displacement and Foliation in Sericitic Phyllite
1832	Improving Slope Stability Analysis: The Role of Calibrated 3D Numerical Models
1835	Numerical Modeling of Stability Analysis for Reinforced Soil Retaining Walls
1836	Statistical Study of Monitoring Data from a Sanitary Landfill and Stability Analysis using the Finite Element Method and Reliability.
1837	SOIL COHESION ESTIMATION BY BACK-ANALYSIS METHOD OF A COLLAPSED SLOPE IN THE CITY OF ORLEANS/SC
1838	A New Approach Managing Instabilities at Grupo Mexico ASARCO's Ray Mine
1840	USE OF INSAR IN MONITORING AND DIAGNOSIS OF AREAS OF GEOTECHNICAL RELEVANCE IN MINING AREAS. CASE STUDY IN OPEN PIT IN THE SOUTHEAST OF PARÁ STATE – BRAZIL
1842	UTILIZATION OF SANDY TAILINGS FOR THE CONSTRUCTION OF A REINFORCED SOIL WALL
1843	EVALUATION OF THE PERFORMANCE OF A STABILIZATION SYSTEM OF SOIL NAIL USING GEOTECHNICAL INSTRUMENTATION
1844	Integrating InSAR Monitoring and Geotechnical Data for Enhanced Understanding Slope Displacements
1845	Controlling Bench Instabilities Through Slope Monitoring, Dynamic Designs, and Operational Adjustments – A Case Study

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1846	BEHAVIOR OF A RAILWAY EMBANKMENT FROM GEOTECHNICAL INSTRUMENTATION
1847	GEOMECHANICAL ANALYSIS OF ROCK MASS COMPARATIVE BETWEEN IN SITU DATA AND DRONE DATA FROM OPEN PIT MINE SLOPE IN THE MUNICIPALITY OF AMERICANA-SÃO PAULO-BRASIL
1850	APPLICATION OF SOIL NAILING TECHNIQUE FOR STABILIZATION OF A SLOPE AFTER A FAILURE EVENT
1851	3D Rockfall management at Freeport-McMoRan Cerro Verde Operation
1853	Stabilization of Slopes Undergoing Creep: Geotechnical and Geological Considerations and Numerical Analysis
1854	Structural Mapping in A Highly Magnetic Banded Iron Formation
1856	Use of Rockfill Buttress for the Stabilization of Mining Slopes - Case of the San Andrés Mine in Honduras
1860	Sub-Surface Instrumentation Monitoring of Large-Scale Instabilities at Bingham Canyon Mine
1861	An updated review on the use of radars – a technical overview of existing and new technologies
1862	A kinematic-based method to quickly inform operational decisions in response to slope deformation.
1865	Study on +180 slope failures in slopes detected with interferometric radars in a growing monitoring center located in Chile

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1866	Blast impact characterization based on deformation, vibration and video analytics for integrated wall control
1867	SYNTHETIC ROCK MASS MODELING OF PROGRESSIVE UNRAVELLING AND OVERALL SLOPE STABILITY USING THE DISCRETE ELEMENT METHOD
1869	Natural Slopes Hazard Management Process at Rio Tinto Kennecott
1870	CASE STUDY BLASTED FOOTWALL DESIGN FOR IMPROVED BENCH AND INTER-RAMP PERFORMANCE
1871	Comparison of RAR vs SAR technologies in an open pit copper mine in northern Chile
1872	Hydromechanical coupling and slope deformation in a copper mine in Chile
1873	An updated study on 3000+ slope failures in open pit mines detected with interferometric radars
1874	Slope failure Risk Management at Greater Brockman (GBO) and Marandoo Operations (MDO) - RTIO
1877	Case study: Input of geomechanical/geological data in rock blasting process
1878	Use of PVC Sheet Piles as a Sustainable Solution for Containment
1881	Inconsistencies in Specified Factors of Safety and Seismic Coefficients or Why You Cannot Get There from Here
1883	Geotechnical Domain Workflows for Historical Mine Voids in a Weak Rock Deposit

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1887	Attracting New Talent to The Geotechnical Profession Through Rio Tinto's Graduate Program
1890	ATLAS INSAR MONITORING SUPPORTING SAMARCO'S MINING PIPELINE INTEGRITY
1892	The real cost of groundwater in open pit mines
1894	Lessons Learnt in Geotech & Hydrogeology BHP Minerals America – Technical Assurance Process (TAP)
1895	Early Warning systems for slope monitoring: methodology and implementation Geotechnical Monitoring
1896	Slope Performance improvement under reconciliation process: from design to monitoring and mining execution.
1897	BlastVision technology applied to flyrock, safe exclusion zones and wall control in blasting
1898	A production risk profile for open pit slopes
1899	Practical Estimates of Rock Mass Strength for Slope Stability
1900	Seismic Risk and Large Open Pit Slope Stability
1901	Establishing an effective training program for Geotechnical Technicians on a Mine Site
1903	A Simple Screening Tool for Preliminary Slope Stability Evaluation

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