

ABSTRACTS RECEIVED

(40 abstracts received as of April 9, 2021)

Represented Countries (7): Brazil, Canada, Chile, France, Germany, Iran, United Kingdom

(A01) Stochastic strategic mine planning: a case study with DeepMine 4.0

Juan Ignacio Guzmán, Manuel Cordero and Cristóbal Schwerter, Gestión y Economía Minera, Chile

(A02) Short-term planning of open pit mines with semi-mobile in-pit crusher

Nasib Al Habib, Ali Moradi Afrapoli and Hooman Askari-Nasab, School of Mining Engineering, University of Alberta, Canada

(A03) Assessing the impact of geology, ore grades and recovery uncertainties into production scheduling

Mohammad Maleki, Department of Metallurgical and Mining Engineering, Universidad Católica del Norte, Chile; Enrique Jélvez, Nelson Morales, Advanced Mining Technology Center, Universidad de Chile; Xavier Emery, Department of Mining Engineering, Universidad de Chile

(A04) Archetypal research and consciousness: a new frontier in mining science and engineering

Elie Abou-Jaoude and Mustafa Kumral, Department of Mining and Materials Engineering, McGill University, Canada

(A05) Remote audits to optimize emission control measures on belt conveyors in times of Covid-19

Arie-Johann Heiertz and Volker Leusch, RWE Technology International, Germany

(A06) Minimizing the truck-shovel fleet through finding best locations for the in-pit crusher and conveyor during the mine life

Alireza Kamrani, Ali Moradi-Afrapoli and Hooman Askari-Nasab, School of Mining and Petroleum Engineering, Department of Civil and Environmental Engineering, University of Alberta, Canada

(A07) Optimización del diseño de caserones de sub level stoping incorporando la incertidumbre geomecánica

Luis Álvarez and Sebastián Donaire, Escuela de ingeniería Civil en Minas, Facultad de ingeniería, Universidad Santo Tomás, Chile

(A08) Impacts of grades uncertainty at a mine plan report

Carlos Mello and João Felipe Costa, Departamento de Engenharia de Minas, Universidade Federal do Rio Grande do Sul, Brazil

(A09) Technical-operational multivariate analysis in the planning process to the initial construction phase for a panel caving mining Project

Alberto Fernández, Ramiro Lara and Patricio Cavieres, Department of Mining Engineering, Universidad de Santiago de Chile

(A10) Optimización de planificación de preparación de corto plazo en panel caving

Luis Alvarez y Nelson Morales, Advanced Mining Technology Center, Universidad de Chile

(A11) Technical-operational assessment of the implementation of the "Continuous Improvement Planning" methodology in the mining construction phase for panel caving

Alberto Fernández, Patricio Cavieres, Mining engineering department, Universidad de Santiago de Chile; and Sofía Aránguiz, Constructora GRADILCIC, Chile

(A12) Detection of instabilities by slope distance reading for application in mining monitoring

Eduardo Diniz, Lívia Pimenta and Felipe Leão, Vale, Brazil

(A13) Open pit mine scheduling via deep Q-Learning

Sebastian Avalos and Julian Ortiz, The Robert M. Buchan Department of Mining, Queen's University, Canada

(A14) OptimalSlope: a software to establish optimal pitwall shapes to maximise mine financial returns

Stefano Utili, Andrea Agosti, School of Engineering, Newcastle University, Newcastle upon Tyne, United Kingdom; and Nelson Morales, DELPHOS Mine Planning Laboratory, AMTC, Universidad de Chile

(A15) Stochastic delineation of potential sulphide exploration targets of the Sierra Norte project

Luis Moreno, Alxar, Chile; Lucas Contreras, Alejandro Cáceres, Geolnova Consultores, Chile; Andrés Pavez, Geo-3, Chile; Xavier Emery, Department of Mining Engineering, Universidad de Chile; and Alfonso Cruz, Universidad Católica de Chile

(A16) High-order simulation of geological domains and effects on the strategic simultaneous stochastic optimization of a gold mining complex

Daniel Morales and Roussos Dimitrakopoulos, Department of Mining and Materials Engineering/COSMO Stochastic Mine Planning Laboratory, McGill University, Canada

(A17) Local sampling information requirement for grade control in the Infiernillo area Los Bronces

María Ardiles, Cesar Ulloa, Manuel Díaz, Los Bronces, Anglo American, Chile; Sebastian Seguel, Lucas Contreras, Alejandro Cáceres, Geolnova Consultores; and Sergio Spichiger, Anglo American Technical & Sustainability Services, Chile

(A18) Rompiendo paradigmas en la planificación minera a cielo abierto con algoritmo evolutivo para el cálculo de flota de transporte

Chang Kim, Maptek, Chile

(A19) Integrated technical and financial stochastic modelling in open pit mining projects

Alejandro Cáceres, Sebastian Seguel and Lucas Contreras, Geolnova Consultores, Chile

(A20) The use of machine learning techniques for molybdenum variability study at Quebrada Blanca

Karina González, Teck Resources, Chile; and Gabriela Brandao, Teck Resources, Canada

(A21) Tracking cobalt in Los Sulfatos deposit, Chile: from drill-core to geometallurgical samples

German Velasquez, Géosciences Environnement Toulouse (GET), Université de Toulouse, France; Iván Vela and Marcial Pablo, Los Bronces Integrated Project, Anglo American Sur, Chile

(A22) Occurrence and mineralogical controls of strategic elements in the Punta del Cobre, Mantos de Cobre and Granate IOCG deposits, northern Chile

Karl Riveros, Israel Solis, Francisco Morales, Department of Geology, Universidad de Atacama, Chile; Sociedad Punta del Cobre, Chile

(A23) Design of experiments approach in mine-planning for block caving

Daniel Villa, GEOVIA, Dassault Systèmes, Canada; and Cristian Poblete, GEOVIA, Dassault Systèmes, Chile

(A24) Mejoramiento en la productividad y el control de costos mediante un sistema de administración estratégico tronadura

Rainier Ramírez, Maptek, Chile

(A25) Optimización en la definición de zonas minerales post-tronadura

Sello Mashabela, Los Bronches, Anglo American, Chile; Eitel Rosenkranz, El Soldado, Anglo American, Chile; and Sergio Spichiger, Anglo American Technical and Sustainability Services, Chile

(A26) 3D predictive fragmentation model using artificial neural network in Los Bronces deposit

Marcelo Rocha, Carlos Barros, Los Bronces, Anglo American, Chile; Nicolás Cruz, Anglo American Technical & Sustainability Services; Cristobal Barrientos, Katia Rossel, Alan Toledo and Alejandro Cáceres, Geolnova Consultores, Chile

(27) Actualización y control de cambios en los modelos geológicos de Carmen de Andacollo

Yerka Siglic and Ricardo Schmidt, Teck Resources, Chile

(A28) Modelo de riesgo para planificación minera en panel caving

Felipe Orellana, I Salinas, M Melendez, F Hidalgo, División El Teniente, Codelco, Chile; A Pinochet, Codelco, Chile

(A29) Secondary rock ore reserve recovery using a primary rock layout: Extensión Hw Pipa Norte, a case study

Ignacio Salinas and Felipe Hidalgo, El Teniente Division, Codelco, Chile

(A30) Predictive geometallurgical modelling for gold recovery: a case study on Sari-Gunay deposit

Zahra Nourizenouz, Mohammad Fahiminia and Omid Asghari, Department of mining engineering, University of Tehran, Iran

(A31) Value chain integrated planning based on a systemic simulation approach to maximize the value of QB2

Patricio Prieto, Teck QB2 Project, Chile; Enrique Rubio, Nassam Estibill and Joaquín Jiménez, REDCO Mining Consultants, Chile

(A32) Secuencia estratégica para el diseño de rajo mediante herramientas de planificación con algoritmo evolutivo

Chang Kim, Maptek, Chile

(A33) Drawpoint value assessment for short-term strategies in cave planning, El Teniente mine

Diego Garcés, Felipe Robles and Joaquin Bernier, El Teniente Division, Codelco, Chile

(A34) Geotechnical characteristics of lithological units using geostatistical and clustering analysis

Rodrigo Estay, Camilo Araos, Carlos Martínez, Department of Metallurgical and Materials Engineering, Universidad Técnica Federico Santa María, Chile; and Sergio Álvarez, Department of Mining Engineering, Universidad de La Serena, Chile

(A35) Short-Medium term planning & strategy through uncertainty

Juan Pablo Llanos and Diego Paez, BHP, Chile

(A36) Metodología para la estimación de estabilidad y sobre-excavación de paredes de caserones en vetas angostas

Brayan Hidalgo, Minera Meridian, Yamana Gold, Chile; Javier Vallejos, Roberto Miranda and Lorena Burgos, Advanced Mining Technology Center, Universidad de Chile

(A37) Circular economy: IOCG ore treatment to supply raw materials electromobility, construction materials, and fertilizers

Javier Quevedo, José Ojeda, Olivia Mejías, Solange Vera, Felipe Saavedra-Mella and José González, SMI-ICE Chile

(A38) Estimación de la distancia peligrosa en depósitos de relave mediante PFEM – Caso de estudio

Marcelo Riveros and Jorge Cortez, Departamento de Ingeniería de Minas, Universidad de La Serena, Chile

(A39) Desarrollo e implementación Modelo de Calidad Física División Radomiro Tomic

Claudia Maldonado and César Briceño, División Radomiro Tomic, Codelco, Chile

(A40) Modelamiento de fallas principales en yacimiento Radomiro Tomic, Distrito Chuquicamata

Rodrigo Rojas, Distrito Norte, Codelco, Chile

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(16 abstracts)

BHP, Chile (1)
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El Soldado, Anglo American, Chile
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Teck Resources, Chile (2)
Teck Resources, Canada
Teck QB2 Project (1)
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Universities and Research Centers

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Department of Metallurgical and Mining Engineering, Universidad Católica del Norte, Chile
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