

Sunday, 1 December 2019- Conference Welcome Function (18:00-19:30)	
DAY 1 - Monday, 2 December 2019	
Stream 1: Grand River Ballroom	
Session 1: Plenary I	
Session Chair: Erkan Topal Conference Chair	
8.30 - 8.40 am	Opening and OH&S Brief: <i>Erkan Topal</i> , Conference Chair
8.40 - 8.50 am	Welcome: <i>Fidelis Suorineni</i> , International MPES International Committee
8.50 - 9.00 am	Official Opening: <i>Hon Bill Johnston</i> , Western Australia's Minister for Mines and Petroleum
9.10 - 9.50 am	Keynote Presentation: Economics of Mine Planning and Equipment Selection - <i>Ian Runge</i> , Founder, RPM Global Holdings Limited, Adjunct Professor and Industry Fellow, University of Queensland
9.50 - 10.30 am	Keynote Presentation: Keynote Presentation: Some perspectives on implications of top globally ranked factors affecting mining on the future of mine planning - <i>Cuthbert Musingwini</i> , Professor & Head of School, (SAIMM Past President), University of Witwatersrand
10.30 - 11.00 am Morning Tea Break & Exhibition,	
Stream 1: Grand River Ballroom East	
Stream 2: Grand River Ballroom West	
11.00 am - 11.25 am	Impact of geological uncertainty at different stages of the open-pit mine production planning process - <i>E Jélvez, N Morales and J M Ortiz</i>
11.25 am - 11.50 am	An application of an open pit mine production scheduling model with Grade Engineering- <i>K Fathollahzadeh, M Cigla, EMardaneh, W Asad</i>
11.50 am - 12.15 pm	Optimised Pit Scheduling Including In-Pit Dumps for Stratified Deposit- <i>R Das, E Topal, E Mardenah</i>
12.15 pm - 12.40 pm	A Simulation Model for Estimation of Mine Haulage Fleet Productivity - <i>S Upadhyay, M Tabesh, M Badozamani, H Askari-Nasab</i>
12.40 pm - 1.40 pm Lunch Break & Exhibition,	
1.40 pm - 2.05 pm	Heuristics vs Mathematical Programming Solvers in Slope Optimisation: A Performance Comparison- <i>G Thomas, A Esmaili</i>
2.05 pm - 2.30 pm	A simulation study of underground coal mining logistics and roadway development performance- <i>E Baafi, S Kiridena, D Cai</i>
2.30 pm - 2.55 pm	Optimization and Sequencing a Semiautomated Ramp Design in Underground Mining: A Case Study- <i>S Montané, P Nancel-Penard, N Morales</i>
2.55 pm - 3.20 pm	Developing a Tool for Automatic Mine Scheduling- <i>K Mishchenko, M Astrand, M Molander, R Lindkvist, T Viklund</i>
3.20 pm - 3.50 pm Afternoon Tea Break & Exhibition,	
Stream 1: Grand River Ballroom East	
Session 4A: Mine Equipment Selection, Utilisation and Maintenance I	
Session Chair: Simon Dominy	
3.50 pm - 4.15 pm	A Novel Approach to Safely Increase Dump Truck Payload Capacity to Optimize Material Haulage- <i>K Aben, Yorazaliyev, F T Suorineni</i>
4.15 pm - 4.40 pm	Prediction of Mining Railcar Remaining Useful Life- <i>M J Rahimdel, B Ghodrati, A T Vahed</i>
4.40 pm - 5.05 pm	Determination of Transition Time from Truck-Shovel to an IPCC System Considering Economic Viewpoint by System Dynamics Modelling- <i>H Abbaspour, C Drebenstedt</i>
5.05 pm - 5.30 pm	Discrete-Event Simulation of a Maintenance Policy with Multiple Scenarios- <i>M O Turan, O Golbasi</i>

DAY 2 - Tuesday 3 December 2019	
Stream 1: Grand River Ballroom	
Session 5: Plenary II	
Session Chair: Cuthbert Musingwini	
9.00 am - 9.40 am	Keynote Presentation: Automated, integrated and optimised mining - maximising value by optimising productivity and product quality- <i>Peter Dowd</i> , Professor of Mining Engineering and Director of the Australian Research Council Industrial Transformation Training Centre for Integrated Operations for Complex Resources The University of Adelaide
9.40 am - 10.20 am	Keynote Presentation: Automation, the next big thing?- <i>Jack Chaston</i> , Autonomous Mining Systems Superintendent at Fortescue Metal Group
10.20 am - 10.50 am Morning Tea Break & Exhibition,	
Stream 1: Grand River Ballroom East	
Stream 2: Grand River Ballroom West	
10.50 am - 11.15 am	Solving complex mine optimisation problems using blend vectoring and multi-objective production scheduling- <i>D Htwe</i>
11.15 am - 11.40 am	Effective methods to reduce grade variability in iron ore mine operations- <i>O Parra Troughina, E Topal</i>
11.40 am - 12.05 pm	Open Pit Mine Scheduling Model Considering Blending and Stockpiling- <i>M Rezakhanlou, E Moreno</i>
12.05 pm - 12.30 pm	Measurement While Drilling Classification for Non Bedded Mineral Deposits using Unsupervised Methods, <i>A Bear, E Topal</i>
12.30 pm - 1.30 pm Lunch Break & Exhibition,	
Session 7A: Rock Mechanics and Geotechnical Applications I	
Session Chair: Mehmet Cigla	
Session 7B: Mine Planning and Block Modelling	
Session Chair: Nelson Morales	
1.30 pm - 1.55 pm	Evaluation on the instability of slope mining influenced by the risks of slope surface and previous mined-out activities - <i>N Naung, T Sasaoka, Hshimada, A Hamanaka, S Wahyudi, P Mao</i>
1.55 pm - 2.20 pm	Application of Synthetic nets as an enabler of optimised pit slopes at Skorpion Zinc Mine - <i>A Mumba, B Besa</i>
2.20 pm - 2.45 pm	Novel Slope Design to Maximise Mining Project Value - the Marvin Deposit Case - <i>A Agosti, S Utili, P Knights, M Kizil, M Nehring</i>
2.45 pm - 3.10 pm	Numerical Investigation on Gate-entry Stability of Trial Panel in Indonesia Longwall Coal Mine - <i>P Mao, T Sasaoka, H Shimada, A Hamanaka, S Wahyudi, J Oya, N Naung</i>
3.10 pm - 3.40 pm Afternoon Tea Break & Exhibition,	
Stream 1: Grand River Ballroom East	
Session 8A: Artificial Intelligence and Mine Automation II	
Session Chair: Youhei Kawamura	
3.40 pm - 4.05 pm	Intelligent Enterprise with Industry 4.0 for Mining Industry- <i>N K Nanda, A Misra</i>
4.05 pm - 4.30 pm	Spatio-Temporal Change Detection of North Antelope Rochelle and Black Thunder Coal Fields of US using Multi-Temporal Remote Sensing Satellite Data - <i>M A Mahboob, B Genc, I Atif</i>
4.30 pm - 4.55 pm	An Automated Underground Space Monitoring and Communication System Based on Wireless Sensor Networks - <i>M A Moridi, M Sharifzadeh, H Jang, Y Kawamura</i>
4.55 pm - 5.20 pm	Development of an Underground In-situ Stress Monitoring System for Mining Safety Using Multi Sensor Cell and Wi-Fi Direct Technology - <i>H Ikeda, Y Kawamura, H Jang, N Ellisha, BMokhtar, JYokokura, Z Paul, L Tungol</i>
7.00 for 7.30 pm Conference Dinner	

Day 3 - Wednesday 4 December 2019	
Stream 1: Grand River Ballroom	
Session 9: Plenary III	
Session Chair: Peter Dowd	
9.00 am - 9.40 am	Keynote Presentation: Introduction to concurrent mining and reclamation for underground coal mines in China- <i>Zhenqi Hu</i> , Professor and Director of the Institute of Land Reclamation and Ecological Restoration, China University of Mining and Technology (Beijing)
9.40 am - 10.20 am	Keynote Presentation: How evolutionary algorithms can handle the true complexity of mine planning and optimisation - <i>Eduardo Coloma</i> , CEO, Maptek
10.20 am - 10.50 am Morning Tea Break & Exhibition,	
Stream 1: Grand River Ballroom East	
Stream 2: Grand River Ballroom West	
10.50 am - 11.15 am	Risk Estimation Approach Considering Implementation of Automated Ventilation Systems into Kazakhstan metal mines - <i>S Sabanov, Y Tussupbekov, B Aldoamzharov, A Karzhau, Z Mukhamedyarova</i>
11.15 am - 11.40 am	Barite in sediments from underground waters of hard coal mines of the Upper Silesian Coal Basin (Poland) - <i>H Makula, Z Bzowski</i>
11.40 am - 12.05 pm	Field scale assessment of artificial topsoil: A Victorian coal mine experience- <i>A Birjak, A Walmsley, N Anderson, J Missen, M yelishetty</i>
12.05 pm - 12.30 pm	Application of Sodium Silicate Chemical Grouting to Tropical Regions - <i>H Shimada, S Wahyudi, T Sasaoka, A Hamanaka, Y Toshida and T Abe</i>
12.30 pm - 1.30 pm Lunch Break & Exhibition,	
Stream 1: Grand River Ballroom East	
Session 11A: Drilling, Blasting and Excavation Engineering	
Session Chair: Hakan Basarir	
1.30 pm - 1.55 pm	Effect of Delay Time and Firing Patterns on the Size of Fragmented Rocks by Bench Blasting- An Underground Case Study - <i>Takashi Sasaoka, Yoshiaki Takahashi, Akhiro Hamanaka, Sugeng Wahyudi, and Hideki Shimada</i>
1.55 pm - 2.20 pm	A Study on Rock Cutting Forces and Wear Mechanisms of Coated Picks by Lab-Scale Linear Cutting Machine- <i>S Kumar Palaniappan, S K Pal, M P Dikshit</i>
2.20 pm - 2.45 pm	An experimental study on Influences of cryogenic quenching on the mechanical properties of Granite using liquid nitrogen (LIN)- <i>R Bisai, S Kumar Pal</i>
2.45 pm - 3.10 pm	Seismic Activity and Convergence in Deep Mining Field, Case Study from Copper Ore Mine, SW Poland - <i>A B Gogolewska, A Markowiak</i>
3.10 - 3.20 pm	Conference Close