Conference Fee
Registration is possible via E-Mail or Website:
E-Mail: RTM@tu-freiberg.de
Website: https://tu-freiberg.de/rtm/registration

Conference fee
Until Feb. 28th 230 €
From Mar. 1st 260 €

Cancellation fee
Until Mar. 17th 30 €
From Mar. 18th Full Fee

Conference Fee includes:
⇒ Brochures of the Conference
⇒ Food, coffee and soft drinks
⇒ Evening Event (March 26th, 2019)
⇒ Taxes

Conference Chair
Technische Universität Bergakademie Freiberg
Department of Mining and Special Civil Engineering
Prof. Dr.-Ing. Helmut Mischo
Department of Mine surveying and Geodesy
Prof. Dr.-Ing. Jörg Benndorf

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Real-Time Optimization of the Extraction and the Logistics Process in Highly Complex Geological and Selective Mining Settings

Conference (March 27th)
Alte Mensa
Petersstraße 5
09599 Freiberg
Parking possibilities:
Car Park Altstadt
Schillerstr. 4
Car Park am Tivoli

Short Course (March 28th)
Karl Neubert Bau
Fuchsmühlengweg 9B
09599 Freiberg

Invitation
Freiberg
March 26th - 27th, 2019

Real Time Mining
Demonstration Day &
2nd International Conference

Demonstration Day (March 26th)
Altes Fördermaschinenhaus and Reiche Zeche
Fuchsmühlengweg 9
09599 Freiberg
Parking possibilities:
Parking site Reiche Zeche

Evening Event (March 26th)
Konzert- & Ballhaus Tivoli
Dr.-Külz-Straße 3
09599 Freiberg
Parking possibilities:
Car Park am Tivoli

CONFERENCE VENUES
Demonstration Day (March 26th)
Altes Fördermaschinenhaus and Reiche Zeche
Fuchsmühlengweg 9
09599 Freiberg
Parking possibilities:
Parking site Reiche Zeche

Evening Event (March 26th)
Konzert- & Ballhaus Tivoli
Dr.-Külz-Straße 3
09599 Freiberg
Parking possibilities:
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Car Park Altstadt
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Short Course (March 28th)
Karl Neubert Bau
Fuchsmühlengweg 9B
09599 Freiberg
Program
Tuesday, March 26th, 2019
Event location: Tivoli
17:30 Doors open at Tivoli
18:00 Welcome
18:10 Real-Time Mining - Results and Outlook
18:20 Keynote - R. Dimitrakopoulos
19:00 Evening Event

Wednesday, March 27th, 2019
Event location: Alte Mensa
08:00 Coffee
09:00 - 09:30 Keynote - A. Oberrauner
09:30 - 10:45 1st Session International Mining 4.0 Projects
L. Lopes
Developing an underwater robotic platform to explore flooded mines – the state of the UNEXMIN project
M. Le Guen
SOLSA-Field tests: indispensable for reaching SOLSA Goals
Ch. Sweeney
Remote Reading Instrumentation Requirements for Longwall Automation in Underground Coal Mines
10:45 - 11:15 Break
11:15 - 12:55 2nd Session - Parallel Session A Sensing 4.0
M. Sandtke
Geochemical mapping of drill core samples using a combined LIBS and XRF core scanning system
12:55 - 13:40 Lunch Break
13:40 - 14:10 Keynote - M. Lowther, M. Wimmer
14:10 - 15:50 3rd Session Resource Modelling 4.0
J. Benndorf
Unlocking online sensor potential: innovative approaches for real-time resource model updating
D. Buttgerit
Virtual Reality Mine Planning and Operation Control
J.R. van Duijvenbode
Use of time-series event classification to control machine performance in the comminution circuit – a conceptual framework

F. Desta
Evaluation of sensor technologies for on-line raw material characterization in “Reiche Zeche” underground mine - outcomes of RTM Implementation
S. Graszk
Evaluation of Thermal Imaging based on LWIR cameras for Rock Characterisation
S. Delchini
Moisture effect on hyperspectral analyses tested on bauxites and Ni-laterites samples
11:15 - 12:55 2nd Session - Parallel Session B Sensing 4.0
H. Nolte
SOLSA Drill, a modular and versatile tool for high quality sampling in heterogeneous soils
D. Maat
Underground Positioning System: DriftLess contribution within a combined with UWB position estimation algorithm
R. Z. Papp
Multispectral imaging of minerals in flooded mines – a case study
J. M. Almeida
UNEXMIN underwater 3D mapping with sonar and laser scan
12:55 - 13:40 Lunch Break
13:40 - 14:10 Keynote - M. Lowther, M. Wimmer
14:10 - 15:50 3rd Session Resource Modelling 4.0
J. Benndorf
Unlocking online sensor potential: innovative approaches for real-time resource model updating
D. Buttgerit
Virtual Reality Mine Planning and Operation Control
J.R. van Duijvenbode
Use of time-series event classification to control machine performance in the comminution circuit – a conceptual framework
J. V. Neves
The Use of Production Scheduling Analogs for Reconciliation of Mining Reserves
15:50 - 16:10 Break
16:10 - 17:50 4th Session - Parallel Session A Mine Planning Optimization 4.0
D. Horner
Data exchange by WLAN and TTE in underground mining to a Supervisory Control And Data Acquisition system basing on OPC Unified Architecture
H. Nolte
Geotechnical parameter definition from machine performance measures for cutting and sonic drilling process
J. Hornung
Optimization of Underground Mining Processes by the Use of Real-Time Data
W. Caoa
Improved grade classification through sequential resource model updating using real time monitoring data in underground mining
16:10 - 17:50 4th Session - Parallel Session B Mine Planning Optimization 4.0
D. Philip
Unraveling the Capability of Artificial Intelligence for Prediction of Rock Fragmentation
J. V. Neves
Uncertainty Integration in Dynamic Mining Reserves
M. Suciu
You can’t improve what you can’t see - The Talpasolutions approach to utilize real time machine data, seeking enhanced mine productivity and efficiency
E. Pučko
Testing of prototype robot UX-1a for exploration and mapping of flooded underground mines
17:50 - 18:00 Closing Remarks