

Sunday 24-10-2021	Monday 25-10-2021		
Hour	ML		RA
8:30 – 8:45	OPENING CEREMONY		
8:45 – 9:45	PLENARY LECTURE MUSIC-3X: A Case History Jianye Ching		
9:45 – 10:45	PLENARY LECTURE Recent Development of Deep Learning on Tunnel Construction and Maintenance Dongming Zhang, Hongwei Huang, Jiayao Chen and Shuai Zhao		
10:45 – 11:15	Coffee break		
11:15 – 11:45	PLENARY LECTURE Artificial Intelligence in Geotechnical Engineering: Insights into Some Modelling Aspects and Applications Mohamed A. Shahin		
11:45 – 12:15	PLENARY LECTURE Geotechnical risk assessment and data uncertainties – example of slope stability analysis Alheib Marwan		
12:15 – 12:30	Chao Shi Yu Wang Ka Chi Lam	Machine learning of subsurface stratigraphy from limited site-specific boreholes and prior geological knowledge using iterative convolutional neural network	Yuki-hisa Tomizawa Ikumasa Yoshida Yu Otake
12:30 – 12:45	Andrzej Gluchowski	Prediction of resilient modulus value of cohesive and non-cohesive soils using artificial neural network	Qin-Xuan Deng Zi-Jun Cao Iason Papaioannou
12:45 – 13:00	Stefan Rauter Franz Tschuchnigg	Classification of Cone Penetration Test data using a hybrid learning model	He-Qing Mu
13:00 – 13:15	Chunling Shan Abbas Abbaszadeh Shahri Stefan Larsson Emma Zäll	Uncertainty analysis of an optimum predictive neural network model in subsurface bedrock level modeling	Zhiyong Yang Xueyou Li Xiaohui Qi
13:15 – 14:15	Lunch		
14:15 – 14:45	PLENARY LECTURE “Żelazny Most” Tailings Storage Facility – huge geotechnical challenge Prof. Waldemar Świdziński		
14:45 – 15:00	Presentation of Student Contest Tom Hansen		
15:00- 15:10	Team One Solution Presentation		
15:10 – 15:20	Team Two Solution Presentation		
15:20 – 15:30	Team Three Solution Presentation		
15:30 – 16:00	Coffee break		
16:00-16:10	The announcement of Student Contest Results		
Registration 17.30-18.30	16:10 – 16:25	María Luisa Taccari Jonathan Nuttall	Physics-based generative adversarial network for groundwater prediction
	16:25 – 16:40	Justyna Dzieciol Wojciech Sas Andrzej Gluchowski Maciej Miturski	Perspective on the application of Machine Learning methods as a tool for estimating flow parameters in Recycled Concrete Aggregate.
	16:40 – 16:55	Primož Jelušič Bojan Žlender	Failure probability of an optimally designed pavement structure
	16:55 – 17:10	Marcin Chwała	
Ice Breaking Cocktail 18.00-21.00	Gala Dinner 20:00		

Legend:

STATIONARY LECTURE
ON-LINE LECTURE
Stationary Presentation
On-line Presentation

Tuesday 26-10-2021				Wednesday 27-10-2021
Hour	ML		RA	
8:30 – 9:15	PLENARY LECTURE Optimising Site Investigations Using Monte Carlo Analysis and Genetic Algorithm Mark Jaksa			
9:15 - 10:00	PLENARY LECTURE Geotechnical risk recognition and reduction (With special focus on earth structures of transport infrastructure) Ivan Vanicek			
10:00 - 10:30	Coffee break			
10:30 – 11:00	LECTURE Artificial Intelligence in Geoscience Pijush Samui		LECTURE The importance of an effective management of landslide monitoring results and their dissemination Daniele Giordan	
11:00 – 11:15	Bruno Stuyts Nathan Snauwaert Sylvie Raymackers	Machine learning models for pile driveability of wind turbine monopiles	Giovanna Vessia Diego Di Curzio Alessandro Chiaudani Sergio Rusi	Maps of Empirical Rainfall Threshold for shallow landslide initiation based on multivariate geostatistical tools
11:15 – 11:30	Tianyu Wang Philippe Reiffsteck Christophe Chevalier Chi-Wei Chen Franziska Schmidt	Application of Random Forest algorithm in bridge scour risk prediction	Wenping Gong Zhan Cheng C. Hsein Juang [GMT +8;17:15]	UAV Images-based Landslide Boundary and Crack Recognition in Dangchuan, China
11:30 – 11:45	Shui-Hua Jiang Li-Rong Chen Jinsong Huang	Prediction of railway track break zones using a novel machine learning model	Xin Wei Lulu Zhang	A hybrid landslide susceptibility mapping model for addressing the generalization ability and prediction uncertainty challenges
11:45 – 12:00	Tatiana Richa Jean-Michel Pereira Gilles Chapron Lina Guayacan	Evaluation of settlement data collected during TBM excavation of a metro line of the Grand Paris Express	Helen W M Li Clio C J Wong Frankie L C Lo Julian S H Kwan	Probability-based Machine Learning of Landslide Susceptibility Analysis
12:00 – 12:30	Coffee break			
12:30 – 12:45	LECTURE Applied machine learning in conventional rock tunnelling Tom Hansen		Timo Schweckendiek Bram van den Eijnden Mark Post Alfred Roubos Jos de Greef	Reliability assessment of quay walls using adaptive meta-modelling
12:45 – 13:00			Diego Di Curzio Giovanna Vessia Paolo Boncio	Liquefaction Potential Index maps for urban planning supported by geostatistical analyses
13:00 – 13:15	LECTURE Risk Assessment and Management of Problems of High Complexity Dependent in Spatio-Temporal Processes Zenon Medina-Cetina		Alla Saponova Paul Johannes Unterlas Jozsef Hecht-Méndez Thomas Dickmann Dirk Krueger Thomas Marcher	Cascade learning system to improve interpretation of geological conditions ahead of the tunnel face.
13:15 – 13:30			Yutao Pan Rui Tao	A data-driven approach for leakage evaluation of jet-grouted cut-off walls with random construction errors
13:30 – 13:45	Lara Ramadan, Isam Shahrour Hussein Mroueh Fadi Hage Chehade	Prediction of the indoor temperature using the Grey box model and Machine Learning methods	Takayuki Shuku	Optimization of Geotechnical Design of Piles using Quantum Annealing
13:45 – 14:00	Josiana El Hage Isam Shahrour Fadi Hage Chehade	Role of Big Data in post-disaster and post-conflict recovery	Krzysztof Hołodnik	Geostatistical model of the geological structure selected in LGOM deposit area
14:00 - 14:15	Hamza Meknassi Isam Shahrour	Intelligent data identification and collection for Smart City projects	Marek Kawa Wojciech Puła Andrzej Truty	Reliability analysis of diaphragm wall using hardening soil-small model
14:15 – 14:30	Głębicki Dariusz, Milczarek Wojciech	Monitoring and prediction of mining-induced deformations with the use of InSAR and machine learning	Joanna Pieczyńska-Kozłowska	Identification of uncertainty in soil strength parameters based on CPT measurements
14:30 – 15:30	Lunch			
15:30 - 16:30	ISSMGE TC309 online meeting			

Technical trip to Zelazny Most tailing pond 9.00-15.00

Legend:

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