AGENDA

Hall: Crystal Hall 3			Date: Sept. 23
T09S01: Technological Innovation in Engineering Geology (3rd Shaoxing International Forum)>Advanced Monitoring Technologies for Geoengineering			
Time	**Paper ID**	**Speaker**	**Paper Title**
08:20-08:40	B891	Chao Zhou **Invited**	Evaluation of loess collapsibility based on a simple elastoplastic model and in-situ time-domain reflectometry tests
08:40-09:00	B892	Dongsheng Xu **Invited**	Recent development of advanced monitoring technologies in coral reef engineering
09:00-09:15	B641	Jiewei Zhan	Characterization of Pre- and Post-failure Deformation and Evolution of the Shanyang Landslides Using Multi-temporal Remote Sensing Data
09:15-09:30	98	Yongxiu Zhou	A novel Remote Sensing Landslide Semantic Segmentation Method: Using cycleGAN- based Change Detection Algorithms
09:30-09:45	B844	Hui Hu	The Application of Visual Deformation Monitoring Techniques in Geological Hazards Monitoring and Early Warning
09:45-10:00	B472	Linan Liu	Investigate Tunneling-induced Ground Subsidence using Integrated InSAR and Machine Learning Techniques
10:00-10:15	401	Haoyu Moa	Safety Intelligent Control Platform of Deep-Buried Tunnel Based on Multivariate Monitoring Informaiton
10:15-10:45			**Coffee Break**
Time	**Paper ID**	**Speaker**	**Paper Title**
10:45-11:05	B447	Honghu Zhu **Invited**	Multi-physical Landslide Monitoring with a Fiber-optic Nerve System
11:05-11:25	B460	Daoyuan Tan **Invited**	A Novel Method for Integrity Assessment of Soil-Nailing Works with Actively Heated Fiber Optic Sensors
11:25-11:40	251	Kai Gu	Groundwater Flow Characterization in Strata of Loose Sediments using Actively Heated Fiber Optics Based Thermal Response Test
11:40-11:55	B756	Abd Ullah	Investigation of Concrete-steel Interaction in Composite Member via Distributed Fibre Optic Sensor Technology
11:55-12:10	B929	Kai Zhou	Secured Drapery System: Tests, Design Principals and Experiences

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T09S03: Technological Innovation in Engineering Geology (3rd Shaoxing International Forum)>New Laboratory Techniques and Their Applications in Engineering Geology			
Time	**Paper ID**	**Speaker**	**Paper Title**
13:20-13:40	B779	Arindam Basu **Invited**	Evaluating shear behavior of 'real' natural rock discontinuities (Keynote Lecture)
13:40-14:00	B828	Shengwen Qi **Invited**	A New Dynamic Direct Shear Apparatus for Discontinuities

14:00-14:20	B445	Zihan Liu **Invited**	A Computational Algorithm for Calculating Fracture Index of Core Runs
14:20-14:35	B831	Rui Kong	Test Apparatus and Technology to Determine Complete Stress-strain Process for Hard Rocks under True Triaxial Stress Path
14:35-14:50	B647	Shuang Yang	Stress-dependent Wave Propagation in Dry Sandstones Considering Void Compaction Under Uniaxial Load
14:50-15:05	407	Hani Meree	A Numerical Study on the performance of Traditional Concrete and Three-Dimensional Printed Concrete Dams under the Boulder Impact
15:05-15:20	321	Yong Chen	Thermal Properties of Phase Change Material Incorporated Subgrade Clay
15:20-15:35	B437	Rong Jiang	Mechanical Properties and Reinforcement Mechanism of Nano-Ferric Oxide Solidified Loess
15:35-15:50			**Coffee Break**
Time	**Paper ID**	**Speaker**	**Paper Title**
15:50-16:10	B495	Jia-Jyun Dong **Invited**	Laboratory Measurement of Fluid Storage and Migration Parameters of Intact Rocks and Rock Joints
16:10-16:30	B192	Kaiwen Xia **Invited**	Laboratory Earthquakes Decipher Control and Stability of Rupture Speeds
16:30-16:50	B499	Cho Sang Ho **Invited**	Dynamic Direct Shear Tests of Jointed Rock using compact CNS Direct Shear Box
16:50-17:05	B719	Jie Wu	Rock Mechanical Portable Laboratory System
17:05-17:20	B450	Hua Li	Comparison of High-frequency Components in Acoustic Emissions from Rock Fracture under Mode I and Mode II Dominated Loading
17:20-17:35	344	Mingliang Zhou	An ANN-based Constitutive Model for Interbedded Hydrate-bearing Sediments
17:35-17:50	629	Zexu Ning	Assessment of Similarity for Rock-like Material Prepared by 3d Printing Technology
17:50-18:05	B434	Wei Yao	Experimental Apparatus for Observing Full Friction Process Using Hopkinson Torsion Bar

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T09S02: Technological Innovation in Engineering Geology (3rd Shaoxing International Forum)>In-situ Geo-technology			
Time	**Paper ID**	**Speaker**	**Paper Title**
08:00-08:20	B60	Yujie Wang **Invited**	Intelligent recognition for parameters of rock masses based on the digital drilling technique
08:20-08:40	B71	Kai Zhang **Invited**	Real-time estimating method on rock strength via MWD of roofbolter and its application to in-situ grouting quality evaluation
08:40-08:55	B62	Siyuan Wu	Time series analyses of Measurement While Drilling (MWD) data for in-situ ground evaluation
08:55-09:10	638	Peng Li	Research on Mechanism and Application of Rotary Penetration Test

09:10-09:25	B320	Wendal Victor Yue	Drilling Dynamic Model for Drilling Resistance Characterization based on Newtonian Mechanics
09:25-09:40	476	Dingmao Peng	A new classification method of karst vertical morphology in bridge site area based on drilling data
09:40-09:55	B153	Xuefan Wang	New in-situ method for quality assessment and project management of ground improvement
09:55-10:10	B266	Weifeng Sun	Study on in-situ Soil Moisture Measurement in Hole
10:10-10:45			**Coffee Break**
Time	**Paper ID**	**Speaker**	**Paper Title**
10:10-10:30	B878	Chun'an Tang **Invited**	Spalling in extreme ground motion and evidence from the 2008 Wenchuan earthquake
10:30-10:50	B838	Wenjie Xu **Invited**	CoSim – A new software for geomechanics and geohazards
10:50-11:05	B851	Pengzhi Pan	Development of CASRock for modeling of deep hard rock fracturing process
11:05-11:20	B742	Chun Liu	Numerical analysis of CO2 transfer in fractured rock based on an improved discrete model
11:20-11:35	B850	Chun Feng	CDEM: a Continuous Discontinuous Numerical Analysis Method for Geological Bodies
11:35-11:50	B744	Hongyuan Liu	Development and application of a parallelised hybrid finite-discrete element method for geohazard mitigation and prevention
11:50-12:05	B409	Qinyuan Liang	Study on Inverse Size Effect of Rock Uniaxial Compressive Strength Based on Grain Based Model Reconstruction Method
12:05-12:20	B4	Gang Mei	A Deep Learning Approach Using Graph Convolutional Networks for Slope Deformation Prediction Based on Time-series Displacement Data
Time	**Paper ID**	**Speaker**	**Paper Title**
13:20-13:40	B746	Eugene Voznesensky **Invited**	Spatial Heterogeneity of Soil Properties from 2D and 3D Engineering Geological Modelling
13:20-13:40	B188	Michael Celia **Invited**	Fluid Leakage along Old Oil and Gas Wells: Modeling and Measurements
14:00-14:15	662	Pengcheng Ma	Research on application of new standard penetration test in Tianjin metro project
14:15-14:30	217	Dongming Zhang	Evaluation of Soil Properties at Pile Location based on CPT Data Using Spectral Clustering and Hidden Markov Chain
14:30-14:45	145	Dongdong Fan	Prediction on Ground Settlement Due to Pumping by a Hybrid Method
14:45-15:00	361	Runqing Ye	Study on Engineering Geology Petrofabric Regionalization of Slope Surface Based on Multi-Source Data
15:00-15:15	16	Jiangrong Hou	On stability of a slope with bedrock using the upper bound limit analysis
15:15-15:30	B3	Yuting Yang	Deep Transfer Learning Approach for Identifying Slope Surface Cracks

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T09S04: Technological Innovation in Engineering Geology (3rd Shaoxing International Forum)>Current Trends and Future Perspectives of Machine Learning Applications in Geoscience and Engineering Geology			
Time	**Paper ID**	**Speaker**	**Paper Title**
15:50-16:10	267	Yimeng Zhou **Invited**	Feasibility and Challenges of Computer Vision-based Automatic Rock Type Classification
16:10-16:25	432	Chengyong Fang	A New Coseismic Landslides Prediction Model Based on Extreme Gradient Boosting Decision Tree
16:25-16:40	B935	Jie Dou	A Comparison of High-precision 3D Modeling of UAV Under Different Flight Modes in Stability Evaluation of Huangtupo No.1 Riverside Sliding Mass
16:40-16:55	239	Ning Ma	Deep Learning deriving New Generation Geophysical Interpretation for Landslide by Microtremor method
16:55-17:10	320	Qingming Li	A Preliminary Framework of Standard Sequence of Rock-soil Strata Based on the Large Database
17:10-17:25	B237	Nikolay Nikiforov	The First Artificial Intelligence-Powered Cloud System for Engineering Geology
17:25-17:40	B306	Fan Meng	Multilevel Wavelet Decomposition Network for Missing Acoustic Well Log Reconstruction
17:40-17:55	B741	Abd Rasid Jaapar	Leveraging on Machine Learning for Managing Geohazard Impacts to Structural Assets