

ISSMGE TC304-TC309 Workshop on Risk Assessment and Machine Learning in Geotechnical Engineering

The 20th International Conference on Soil Mechanics and Geotechnical Engineering

Sydney, Australia, May 1st, 2022

Venue: Room (C4.6), Sydney International Convention Centre

Zoom link:

Time (Sydney)	Speaker	Topic
12:40 - 12:50	Jinsong Huang University of Newcastle Mohammad Rezaia University of Warwick	Welcome
Invited technical presentations		
12:50 - 13:10	Yu Wang City University of Hong Kong, Hong Kong	Machine learning of limited site investigation data for probabilistic assessment of reclamation-induced consolidation settlement
13:10 - 13:30	Takayuki Shuku Okayama University Japan	Visualizing 3D spatial distribution of rock mass properties using a probabilistic transformation model
13:30 - 13:50	Jiawei Xie University of Newcastle, Australia	Ground models by combining geotechnical and geophysical data
13:50 - 14:10	Pijush Samui National Institute of Technology Patna, India	Machine learning in geotechnical risk analysis
14:10 - 14:30	Wengang Zhang Chongqing University, China	Dual driven model for displacement prediction of unsaturated slopes
14:30 - 14:50	<i>Health break</i>	
14:50 - 15:10	Tatiana Richa Terrasol, Setec France	Evaluation of settlement data collected during TBM excavation of 2 metro lines of the grand paris express
15:10 - 15:30	Georg H. Erharter Norwegian Geotechnical Institute Norway	Supervised-, unsupervised- and reinforcement learning in tunnelling
15:30 - 15:50	Jianye Ching National Taiwan University Taiwan	A hierarchical Bayesian similarity measure for geotechnical site retrieval
15:50 - 16:10	Zili Li University College Cork Ireland	Big data acquisition and image-based machine learning assessment for tunnel infrastructure
16:10 - 16:30	Guotao Ma University of Warwick United Kingdom	Stochastic material-point framework for landslide runout analysis considering spatially varying soil

Abstracts of all presentations can be downloaded at

www.isgsr2022.org/TC304-TC309-ICSMGE-Sydney-workshop-abstracts.pdf

