TECHNICAL PROGRAM

(Nov. 20~22, 2017, Chutian International Hotel, Wuhan, China)

Nov.20 Afternoon					
12:00~21:00	Registration (Venue: lobby)				
18:00~21:00	Buffet dinner (Venue: Xiangxie Hall)				
	Nov.21 Morning				
Opening Ceremony [Chair: Quansheng LIU]					
	Venue: ChuTianGong Hall				
	Quansheng LIU, Organizing Committee Chair of TBM Dic	Gs 2017			
	Fei LI, Vice-president of Wuhan University				
08:30~09:00	Jian ZHAO, Scientific Committee Chair of TBM DiGs 2017				
	Giovanni BARLA, Professor of Politecnico di Torino				
	Zuyu CHEN, Academician of the Chinese Academy of Sciences				
09:00~09:20	Photographing (Venue: Hotel Gate)				
	Keynote Lectures [Chair: Jian ZHAO, Nick BARTO	N]			
	Venue: ChuTianGong Hall				
09:20~09:50	Contribution to the understanding of subsidence during	Giovanni BARLA			
07.20 -07.50	TBM excavation of a twin tunnel in difficult ground	Giovanni BARLA			
09:50~10:20	Advance detection and prediction of unfavorable	Shucai LI			
09:50~10:20	geological condition in TBM tunneling				
10:20~10:35	Tea break				
:	Invited Lectures [Chair: Quansheng LIU, Jamal ROST.	AMI]			
Venue: ChuTianGong Hall					
	Study on the rock breakage and wear of TBM disc cutter				
10:35~10:55	in high strength and high abrasive strata	Kairong HONG			
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10:55~11:15	TBM performance prediction using laboratory cutting tests	Nuh BILGIN			
	in very hard and abrasive rock formations				

11:15~11:35	Electromechanical coupling vibration mechanism and anti-vibration design of TBM under multi point impact excitation	Junzhou HUO	
11:35~11:55	Selection and application of double shield TBM for metro tunnel	Dujuan WANG	
11:55~14:00	Lunch (Venue: Xiangxie Hall)		
	Nov.21 Afternoon		
	Keynote Lectures [Chair: Giovanni BARLA, Shucai]	LI]	
	Venue: ChuTianGong Hall		
14:00~14:30	Soft ground TBM tunneling	Michael MOONEY	
14:30~15:00	Rock cutting and TBM tunneling under stressed condition	Quansheng LIU	
15:00~15:15	Tea break		
Oı	Oral presentations [Chair: Michael MOONEY, Qiuming GONG]		
	Venue: ChuTianGong Hall		
15:15~15:30	Assessing the impact of most significant parameters on required thrust force in tunneling through difficult grounds	Jamal ROSTAMI	
15:30~15:45	The 3D numerical simulation of rock fragmentation by one TBM disc cutter under the different confining stress	Xiaoping ZHOU	
15:45~16:00	First road tunnel beneath the bosporus strait - extremely challenging project in terms of engineering technology	Thorsten Tatzki	
16:00~16:15	TBM-block interaction during TBM tunneling in rock masses: block behavioristics and the dynamic features	Zixin ZHANG	
16:15~16:30	Effect of rock abrasiveness on slurry shield tunneling	Seungmo SON	
16:30~16:45	Analysis on the effects of geological conditions and cutter layout on TBM disc cutter wear	Yadong XUE	
16:45~17:00	Numerical simulation and analysis of deformation and failure mode of underlaying surrounding rock of TBM gripper	Tao LI	
17:00~17:15	TBM tunneling in the urban center of Hong Kong	Guy BRIDGES	

17:15~17:30	Performance of slurry TBM tunneling in sandy cobble	Yong FANG	
	ground – a case study in Lanzhou		
17:30~17:45	Tunneling between the Sydney harbor heads to expand the	Ted NYE	
	city's rail network		
17:45~18:00	Influences of joint orientation and spacing on cutting	Haiqing YANG	
	forces and penetration during rolling boring process		
19:00~21:00	Banquet (Venue: ChuTianGong Hall)		
	Nov.22 Morning		
	Keynote Lectures [Chair: Nuh BILGIN, Yuyong JIAO]		
	Venue: ChuTianGong Hall		
08:00~08:30	TBM in difficult rock conditions	Nick BARTON	
08.00~08.30		NICK BARTON	
08:30~09:00	Design and manufacture key technologies and applications	Jianbin LI	
	of non-circular TBM		
09:00~09:30	New technologies assisting hard rock cutting of TBMs	Jian ZHAO	
09:30~09:45	Tea break		
	Invited Lectures [Chair: Thorsten Tatzki, Xiaoping ZH	(OU]	
	Venue: ChuTianGong Hall		
09:45~10:05	Discussion on development of hard rock TBM technology	Yongliang CHENG	
10.05.10.25	Experiences of TBM Tunneling in shaft coal mine: a case	Yongzhi TANG	
10:05~10:25	study	& Bin TANG	
10.25, 10.45	Some new tests for rock fragmentation under TBM cutter	Lijun YIN	
10:25~10:45	by Bjut mechanical rock breakage experimental platform		
10.45 11.05	Study on the stress field evolution and test technology of	Hui ZHOU	
10:45~11:05	TBM tunneling in deep buried tunnels		
44.05.44.25	Technology of long coal mine inclined tunnel construction	Xudong ZHANG	
11:05~11:25	by TBM	& Mingtan XIA	
11:25~11:45	Development of a TBM highly adaptive to the complex	Jianjun ZHOU	
	geological conditions in Gaoligong Mountain tunneling	Junjun 21100	
11:45~12:00	Technical development trend discussion about deep shaft construction	Guoye JING	

12:00~14:00	Lunch (Venue: Xiangxie Hall)			
	Nov.22 Afternoon			
Oral Presentations [Chair: Dujuan WANG, Zixin ZHANG]				
Venue: ChuTianGong Hall				
13:45~14:00	Research on the method of detecting boulder stratum with shield tunneling parameters	Jingbo GUO		
14:00~14:15	Challenges of excavation through mixed-face grounds by hard rock TBMs: the case study of Kerman water conveyance tunnel	Roohollah Narimani Dehnavi		
14:15~14:30	Development and application of TBM monitoring platform based on 'Internet+' and big data analyses	Yusheng JIANG		
14:30~14:45	The research progress and prospect of Tunnel-Seismic-While-Drilling method for ahead geological prospecting in TBM tunneling	Bin LIU		
14:45~15:00	Prediction and analysis of abrasiveness of dense sandy strata by slurry shield TBM at Sutong GIL Utility Tunnel Engineering	Xiaoping ZHANG		
15:00~15:15	Technical feasibility study on using TBM in construction of underground research laboratory for China's HLW disposal	Hongsu MA		
15:15~15:30	Soil conditioning for EPB shield tunneling in clayey ground	Shuying WANG		
15:30~15:45	Challenges of TBM excavation in a deeply buried water-conveyance tunnel: squeezing, rock burst and high geo-temperature	Yonghong LUO		
15:45~16:00	Tea break			
Oral presentations [Chair: Hui ZHOU, Yusheng JIANG] Venue: ChuTianGong Hall				

16:00~16:15	TBM disc cutters in the field: extreme tunnel conditions inform the latest cutting tool advancements	Jian ZHANG
16:15~16:30	Influence of free face direction on rock breaking by TBM disc cutters	Qi GENG
16:30~16:45	Simulation and analysis in 3D of TBM disc cutters collaborative rock fragmentation patterns	Hanxiang ZHAO
16:45~17:00	Development and in-situ application of a real-time monitoring system for the interaction between TBM and surrounding rock	Xing HUANG
17:00~17:15	Investigation of Rock Bolting for Deeply Buried Tunnels via a new efficient hybrid DEM-Analytical model	Guo XIAO
17:15~17:30	Transparent soft rock test for simulation of TBM tunneling in squeezing ground	Shuo YANG
17:30~17:45	Comprehensive performance evaluation method of mucking structure for TBM cutterhead	Mei YANG
17:45~18:00	Three-dimensional discrete element numerical simulation of rock fragmentation by TBM cutters based on MatDEM	Bing LIU
18:00~18:15	Research on the correlation between machine hydraulic information and penetration rate of TBM	Hua LUO
18:15~18:30	Discussion and Closing Ceremony	
18:30~21:00	Buffet dinner (Venue: Xiangxie Hall)	
Nov. 23 Technical Visit		
07:30~11:30	Sanyang Road tunnel, Wuhan, Hubei	
06:30~13:00	Rectangular TBM construction site, Zhengzhou, Henan	