

第三届华南理工大学&香港澳门高校 土木工程博士生工作坊

The Third Workshop of Civil Engineering PhD Candidates from
SCUT & Hong Kong & Macau Universities



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY



工作坊日程

Workshop Schedule



2015年12月18日-20日

Dec. 18 to Dec. 20, 2015

广州市天河区五山路381号 华南理工大学

381 Wushan Road, Tianhe District, SCUT, Guangzhou

Workshop Schedule:

December 19 th , 2015			
8:30-9:00	Registration		
9:00-9:30	Opening Ceremony		
	Location: 7201 academic report hall, building #7		
	Guests: Prof. Cheng SU, Assistant Principal & Dean of School of Civil Engineering and Transportation of SCUT; Fei HUANG, Deputy Director of International Office of SCUT; Ling XIONG, Director of Training Office of Graduate School of SCUT; PolyU, Prof. Jian-Hua YIN; UM, Prof. Wai-Meng Quach and Prof. Wan-Huan ZHOU; all the guests		
	Take a group photo at building #7 after opening ceremony		
9:30-10:00	Each attendee goes to the meeting venue according to his/her theme		
December 19 th , 2015			
Main Session	Themes: structural monitoring, fire engineering, earthquake engineering, wind engineering		Location: 7201 academic meeting hall, building #7 Host: Dr. He-Qing MU Guests: Prof. Wai-Meng Quach from UM
Time	Name	University	Topic
10:00-10:15	ALABI Stephen Adeyemi	CityU	Bayesian identification of the nonlinear ballast model parameters using measured time domain data
10:15-10:30	Xi-Qiang WU	HKU	Simulation of concrete box girder bridge exposed to fire from tanker truck
10:30-10:45	Zhi-Jian HUANG	SCUT	Time-domain explicit iteration random simulation method for seismic analysis of hysteretic isolation structures
10:45-11:00	Xue-Lin ZHANG	HKUST	Characteristics of pedestrian level wind environment in twisted wind flow around isolated buildings
11:00-11:15	Ye YAO	UM	Numerical simulation of residual stresses in cold formed steel hollow sections
11:15-11:30	OLADOKUN Majeed Olaide	CityU	Progress in stratum ventilation research over the last ten years
11:30-11:45	Xiao-Lu LIU	SCUT	Time-domain explicit random simulation method for multi-support excitation seismic analysis of long-span bridges
12:00-13:00	Lunch in Xi-Hu Hotel		
14:00-14:15	Bao-Mu LI	SCUT	Nonlinear random seismic response analysis of long-span suspension bridge
14:15-14:30	Yi-Xin PENG	PolyU	Smart control of straight-bladed vertical-axis wind turbines
14:30-14:45	Zhi-Qiang HU	SCUT	The explicit time-domain method for nonstationary random responses sensitivity analysis
15:45-15:00	Zhi XU	SCUT	Spline fictitious boundary element method for the analysis of fracture mechanics
15:00-15:15	Coffee Break		

15:15-15:30	Zhong-Shan QIN	SCUT	Stochastic spline fictitious boundary element method for modal analysis of plane elastic problems with random fields
15:30-15:45	Can-Xing QIU	PolyU	Performance-based seismic design of SMA-based self-centering steel frames
15:45-16:00	Xian-Qi DENG	SCUT	Topology optimization of 2d continuum using nodal design variables
16:00-17:00	Visit the State Key Laboratory of Subtropical Building Science of SCUT		
December 19 th , 2015			
Session 1	Theme: composite material		Place: 7220 meeting room, building #7 Host: Dr. Tong-Sheng ZHANG Guests: Prof. Jing LI, Dr. Wen-Ying GUO, Dr. Heng-Chang WANG
Time	Name	University	Topic
10:00-10:15	SELIM Belal Ahmed Mohamed Mohamed	CityU	Modelling of FG-CNTs reinforced composite plates using the element-free IMLS-Ritz method based on the higher order shear deformation theory.
10:15-10:30	Asad Hanif	HKUST	Green lightweight cementitious composites
10:30-10:45	Zhao-Quan XU	SCUT	Monitoring technology of concrete characteristics during construction period
10:45-11:00	Ping-Ping ZHU	CityU	Determining up-down-up response through solutions for a pre-twisted shape memory alloy tube under tension
11:00-11:15	Pan ZHANG	PolyU	Moisture effect on bulk epoxy and epoxy-bonded material systems investigated by using molecular dynamics simulations
11:15-11:30	Wen ZHU	SCUT	Application of self-compacting concrete in Yangjiang nuclear power plant
12:00-13:00	Lunch in Xi-Hu Hotel		
14:00-14:15	Yang-Yang ZHU	SCUT	Preparation of core-shell organic corrosion inhibitor and its release behavior
14:15-14:30	Shuang ZHENG	HKU	The application of water repellent materials in slope protection
14:30-14:45	Xiao-Yi CHEN	CityU	Swelling and instability of a spherical core-shell gel
14:45-15:00	Coffee Break		
15:00-15:15	Yang-Peng OU	SCUT	Metabolism of heavy metals in co-processing wastes in cement kiln: a review
15:15-15:30	Xiao LIU	PolyU	Experimental investigations into residual stresses in Q690-QT welded joints
15:30-15:45	Yang CHEN	SCUT	Utilization of 3D digital image correlation to characterize the time-dependent deformation of concrete

15:45-16:00	Hamed MOKHTARI	HKUST	Extruded cement based materials
16:00-17:00	Visit the State Key Laboratory of Subtropical Building Science of SCUT		
December 19 th , 2015			
Session 2	Theme: geotechnical engineering		Place: 7220 meeting room, building #7 Host: Prof. Wan-Huan ZHOU from UM Guests: Prof. Jian-Hua YIN from PolyU, Prof. Hong PAN, Prof. Hong CAO, Prof. Ren-Guo GU, Dr. Ling-Zhen BA
Time	Name	University	Topic
10:00-10:20	Ankit Garg	UM	Green-Geotechnology: Application of vegetation for improving soil strength
10:20-10:40	Dong-Feng ZHU	SCUT	the research of underground structures anti-floating control based on seepage theory
10:40-11:00	Wen-Bo CHEN	PolyU	Newly-designed double cells triaxial system for cyclic testing on unsaturated soil
11:00-11:20	Lin-Shuang ZHAO	UM	Analytical solutions for axi-symmetrical consolidation of saturated soil under surcharge combined vacuum preloading
11:20-11:40	Jian CHEN	SCUT	Multi-scale analysis of soil properties
12:00-13:00	Lunch in Xi-Hu Hotel		
14:00-14:20	Ying-Ping XIAO	SCUT	Backward erosion piping progression
14:20-14:40	Xiao-Hui QI	UM	Probabilistic back-analysis of braved excavation using field observations
14:40-15:00	Jie-Qiong QIN	PolyU	development of new fbg-based transducers for integrated measurement of total earth pressure, porewater pressure and effective stress
15:00-15:20	Xue-Ying JING	UM	DEM simulation of micro-macro behavior of granular materials
15:20-15:40	Si-Ge PENG	SCUT	critical hydraulic conditions for the initiation of piping
15:40-16:00	Mi PAN	HKU	Status quo and future development of lean construction in the Hong Kong
16:00-17:00	Visit the State Key Laboratory of Subtropical Building Science of SCUT		
December 19 th , 2015			
Session 3	Theme: construction management		Place: 106 meeting room, building #6 Host: Dr. Yi-Chuan DENG Guests: Dr. Hong-Yang LI, Dr. Fan WU, Dr. Hui YAN
Time	Name	University	Topic

10:00-10:15	Su-Juan ZHANG	HKU	Project capabilities: a literature review and research agenda
10:15-10:30	Liang-Liang YUAN	SCUT	analyzing influencing factors of financing decision for urban rail transit projects using dematel approach
10:30-10:45	Li-Zi LUO	PolyU	Risk factors affecting practitioners' attitudes toward the implementation of an industrialized building system
10:45-11:00	OSHODI Olalekan S	CityU	construction output forecasting: a comparison of univariate modelling techniques
11:00-11:15	Wei-Wei CHEN	HKUST	A BIM-based Decision Support System Framework for Facility Maintenance Management in Buildings
11:15-11:30	Ri-Chu HUANG	SCUT	The reform of Guangdong construction market and construction enterprise
12:00-13:00	Lunch in Xi-Hu Hotel		
14:00-14:15	Lei-Lei ZHENG	SCUT	The exploration of providing for the aged in existing Guangzhou commercial districts
14:15-14:30	Ming LOU	PolyU	Study on the trend of construction labor cost in Hong Kong
14:30-14:45	Raman AWALE	HKU	An exploratory study of a 'Creating Shared Value' (CSV) concept for achieving firm competitiveness in Hong Kong construction firms
14:45-15:00	Abidoye, Rotimi Boluwatife	PolyU	Real estate property valuation practice in nigeria
15:00-15:15	Coffee Break		
15:15-15:30	Bing-Xia SUN	PolyU	A study of plot ratio/building height restrictions for Kai Tak development using 3d spatial analysis technology
15:30-15:45	Jian-Xiong WANG	SCUT	EPC project risk management research on railways in Africa
15:45-16:00	Memon, Shoeb Ahmed	HKU	Relational behaviour for project teams in relational contracting
16:00-17:00	Visit the State Key Laboratory of Subtropical Building Science of SCUT		
December 19 th , 2015			
Session 4	Theme: transportation engineering		Place: 410 meeting room, Transportation Building Host: Prof. Sheng TIAN Guests: Prof. Yu-Cong HU, Prof. Yong-Hong LI, Dr. Xiao-Fei WANG
Time	Name	University	Topic
10:00-10:20	En-Qiang GUO	SCUT	How to extract vehicle detection area under varying PTZ camera rotational conditions
10:20-10:40	Yi-Ming HE	HKU	The influences of urban highway investment in deindustrialization: a territorial analysis on Hong Kong's office property transaction

10:40-11:00	Shu-Qing LIU	SCUT	Research of microscopic fundamental diagram based on space-time distribution of vehicle density
11:00-11:20	Tian-Lu PAN	PolyU	The dynamic traffic model for traffic state surveillance and prediction
11:20-11:40	Xiang-Xue WANG	SCUT	The analysis of traffic congestion evolution based on cusp catastrophe theory
12:00-13:00	Lunch in Xi-Hu Hotel		
14:00-14:20	Fang-Ni ZHANG	HKUST	Managing the multimodal transportation system with roadway space allocation and responsive bus services
14:20-14:40	Dong-Bo ZHANG	SCUT	An improved parallel k-means algorithm based on map reduce
14:40-15:00	Wei PAN	CityU	How does congestion have impact on traffic related PM10 emission
15:00-15:20	Yong-Xin LIU	SCUT	Public transit data mining and visualization
15:30-16:30	Visit the Transportation Laboratory		
December 20 th , 2015			
Session 3	Theme: construction management		Place: 7201 academic meeting hall, building #7 Host: Dr. Hong-Yang LI Guests: Dr. Yi-Chuan DENG, Dr. Fan WU, Dr. Hui YAN
Time	Name	University	Topic
9:00-9:15	Wen-Zhao HE	SCUT	The theory and empirical research on the performance evaluation of government investment projects
9:15-9:30	Lam, Suen Man Schuman	PolyU	Is human development a means to an end for optimizing quality of urban life in the context of sustainable urban development?
9:30-9:45	Juan CHEN	CityU	Study on elevator aided high-rise building evacuation
9:45-10:00	Ze-Zhou WU	PolyU	Determinant factors for contractor’s behavior towards construction and demolition waste management
10:00-10:15	Coffee Break		
10:15-10:30	Jian-Feng LI	SCUT	A game analysis of stakeholders in urban renewal based on maximization of social welfare
10:30-10:45	Ling CHEN	PolyU	“Leaning” the project videos recorded at construction sites
10:45-11:00	Ni LU	SCUT	Study on reengineering the approval procedure and benefit analysis of guangzhou properties
11:30-12:30	Lunch in Xi-Hu Hotel		

Enquiry: please email scut_hk_workshop@126.com or telephone 13560425912/13424482105.