

The Thirty-Sixth KKHTCNN Symposium on Civil Engineering

3 – 5 December 2025, Hong Kong, China

Day 1: 8:00 – 12:00, Wednesday, 3 December 2025

Venue: Lecture Theater A (LTA), Academic Building, HKUST

8:00 – 12:00	REGISTRATION Note: You are recommended to register from 14:00 to 18:00 on 2 December 2025 in front of Lecture Theater A, Academic Building, HKUST.
9:30 – 9:35	Welcoming Address Prof. Hong K Lo, Dean of School of Engineering, HKUST
9:35 – 9:40	Opening Address Prof. Limin Zhang, Head of Department of Civil and Environmental Engineering, HKUST
9:40 – 10:10	Photo taking
10:10 – 10:30	BREAK
10:30 – 11:00	Keynote Speech 1
11:00 – 11:30	Keynote Speech 2
11:30 – 12:00	Keynote Speech 3
12:30 – 14:00	LUNCH (Outside of Lecture Theater A, Academic Building)

Day 1: 14:00 – 17:30, Wednesday, 3 December 2025

Venue: Academic Building, HKUST

14:00 – 15.30	TECHNICAL SESSIONS						
Venue	Track 1 2130A	Track 2 2130B	Track 3 2130C	Track 4 2131A	Track 5 2131B	Track 6 2132A	Track 7 2132B
	Construction Engineering and Management	Geotechnical Engineering	Geotechnical Engineering	Geotechnical Engineering	Construction Materials	Construction Materials	Hydraulic Engineering
Track chairs	Manop Kaewmoracharoen	Hiroyuki Goto	Kiyoshi Kishida	Yasuo Sawamura	BOONCHAI STITMANNAITHUM	Withit Pansuk	Jiarui Lei
15:30 – 15:45	BREAK						
15:45 – 17:30	TECHNICAL SESSIONS						
Venue	Track 1 2130A	Track 2 2130B	Track 3 2130C	Track 4 2131A	Track 5 2131B	Track 6 2132A	Track 7 2132B
	Construction Engineering and Management	Geotechnical Engineering	Geotechnical Engineering	Construction Materials	Hydraulic Engineering	Structural Engineering	Hydraulic Engineering
Track chairs	Nakhon Kokkaew	Ming Peng	Mamoru Kikumoto	Atichon Kunawisarut	Jinwoo	Risa Matsumoto	Zhengzheng Zhou
19:00	Welcome Dinner (Venue: LG7 Kitchen 2, HKUST)						

Day 2: 9:00 – 14:00, Thursday, 4 December 2025

Venue: Academic Building, HKUST

9:00 – 10:30	TECHNICAL SESSIONS						
Venue	Track 1 2130A	Track 2 2130B	Track 3 2130C	Track 4 2131A	Track 5 2131B	Track 6 2132A	Track 7 2132B
	Structural Engineering	Structural Engineering	Structural Engineering	Environmental Engineering	Geotechnical Engineering	Geotechnical Engineering	Geotechnical Engineering
Track chairs	Xin Meng	Kyohei Noguchi	Hyo-Gyoung Kwak	Kevin Sze Chiang Kuang	Suched Likitlersuang	Veerayut Komolvilas	Hideaki Yasuhara
10:30 – 10:45	BREAK						
10:45 – 12:30	TECHNICAL SESSIONS						
Venue	Track 1 2130A	Track 2 2130B	Track 3 2130C	Track 4 2131A	Track 5 2131B	Track 6 2132A	Track 7 2132B
	Structural Engineering	Structural Engineering	Structural Engineering	Structural Engineering	Transportation Engineering	Transportation Engineering	Transportation Engineering
Track chairs	Tomomi Yagi	Youngechul Kim	Chayut Ngamkhanong	Anqi Gu	Siwarak Unsiwilai	Sorawit Narupiti	Jittichai Rudjanakanoknad
12:30 – 14:00	LUNCH (Venue: In front of Lecture Theater A, HKUST)						

Day 2: 14:00 – 17:30, Thursday, 4 December 2025

Venue: Academic Building, HKUST

14:00 – 16:00	TECHNICAL SESSIONS						
Venue	Track 1 2130A	Track 2 2130B	Track 3 2130C	Track 4 2131A	Track 5 2131B	Track 6 2132A	Track 7 2132B
	Structural Engineering	Structural Engineering	Structural Engineering	Others			
Track chairs	Tidarut Wisuthseriwong	Xu Jiang	Watanachai Smittakorn	Shengjie Rui			
15:30 – 17:30	KKHTCNN Coordinators Meeting (Venue: Conference Room (Room 3574) of Department of Civil & Environmental Engineering, HKUST)						
19:00	Dinner (Venue: G/F Chinese Restaurant, HKUST)						

Day 3: Friday, 5 December 2025

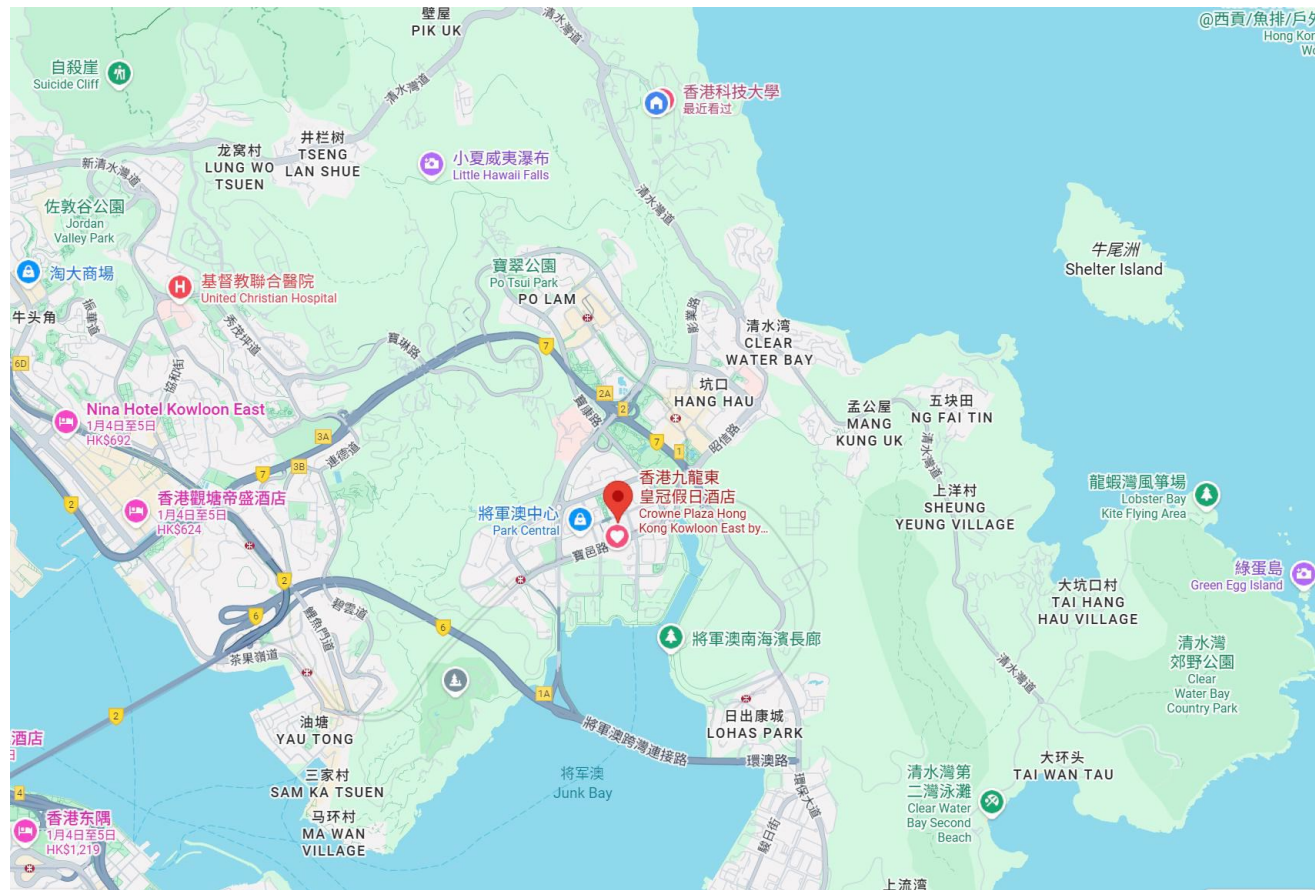
TECHNICAL TOUR: Construction Site Visit & Cultural Tour

Gathering time: 8:50 am

Meeting Point: Crowne Plaza Hong Kong Kowloon East, Tower 5, No. 3 Tong Tak Street, Tseung Kwan O, Hong Kong

Activities:

- Design and construction of light public housing at Olympic Avenue, Kai Tak
- Kai Tak Sports Park
- Lunch



Time	Wednesday, 3 December, Academic Building, HKUST		
	Track 1 Venue: 2130A	Track 2 Venue: 2130B	Track 3 Venue: 2130C
	Construction Engineering and Management Chair: Manop Kaewmoracharoen	Geotechnical Engineering Chair: Hiroyuki Goto	Geotechnical Engineering Chair: Kiyoshi Kishida
14:00 – 15:30	Efficient Crack Segmentation using conditional operation of MoE <i>WooSuk Jang, Gi-Hun Gwon, Jaehwan Seong, Hyung-Jo Jung, Korea Advanced Institute of Science and Technology</i>	FEM-Based Analysis of Deformation Behaviour of Corrugated Steel Pipes under Building Loads <i>Deok-Hwi. Hwang, Joohyun. Park, Gye-Chun. Cho, Korea Advanced Institute of Science and Technology</i>	Improving TBM Performance: A Review of Cutter Wear Prediction <i>Nichsiree Kuakulkiat, Jongwon Woo, Gye-Chun Cho, Korea Advanced Institute of Science and Technology</i>
	Fundamental Experiment on the Elongation of C-5 Paint Coating System Using Digital Image Correlation <i>Minori Takahashi, Akihiko Sato, Kunitomo Sugiura, Yasuo Kitane, Risa Matsumoto, Tomonori Tomiyama and Hideto Kida, Kyoto University</i>	Subsurface Anomaly Detection using Electrical Resistivity: for Multiple Utilities <i>DY. Lee, J. Kim, GC. Cho, Korea Advanced Institute of Science and Technology</i>	Influence of particle elongation and interparticle friction on the mechanical behavior of granular media <i>Usman Ali and Mamoru Kikumoto, Kyoto University</i>
	Intelligent Tower Crane Layout in Construction Sites Using a Genetic–Ant Colony Algorithm <i>Yuanjun Nong, Yujie Lu, Man Cui, Tongji University</i>	The effect of particle size distribution on the collapse of immersed polydisperse granular columns <i>Jiacheng Xia, Ming Peng, Lu Jing, Tongji University</i>	Experimental Technique for Micro-to-Macro Investigation of Granular Materials under Biaxial Loading <i>Pongsapak Kanjanatanalert, Usman Ali, Ying Cui, Mamoru Kikumoto, Kyoto University</i>
	A Study of the Impact of Climate Change on Pavement Conditions of National Roads in Cambodia under Different Shared Socioeconomic Pathways (SSPs) <i>Sunny Yin and Nakhon Kokkaew, Chulalongkorn University</i>	Evaluation Method for the Lifespan of Monitoring Sensors in High-Level Radioactive Waste Repositories <i>C. Park, G.C. Cho, Korea Advanced Institute of Science and Technology</i>	Wave Generated by Submarine Landslide with Various Initial Velocities <i>Nadila Ayu Novanti, Hiromasa Iwai, Hideaki Yasuhara, Kyoto University</i>
	A Study of Criteria and Factors affecting the Decision to Buy a Senior Housing Project in Thailand <i>T. Intarak N. Kokkaew, Chulalongkorn University</i>	Modeling of excavated soil discharge in the screw conveyor of TBM using CEL approach <i>Jongwon Woo, Joohyun Park, Nichsiree Kuakulkiat, Gye-chun Cho, Korea Advanced Institute of Science and Technology</i>	Evaluating the Potential of Charcoal Waste to Improve Biogrouting Performance through Soybean Crude Urease Carbonate Precipitation (SCU-CP) <i>Nuril Charisma,, Hideaki Yasuhara, Hiromasa Iwai, Kyoto University</i>
	Evaluating Ergonomic Risk Through Dual-Method Analysis in Tile installation Work <i>Yoon Zaw, Vachara Peansupap, Manop Kaewmoracharoen, Chulalongkorn University</i>	CO2 Storage in a Geological Formation: A Numerical Simulation Approach <i>Sokpheanika Chea, Jung-Tae Kim, Gye-chun Cho, Korea Advanced Institute of Science and Technology</i>	Application of a Compact Triaxial Force Sensor to Stress Ratio Measurement with Constant Normal Stress Direct Shear Tests <i>Toshinori Yoshimura, Yuusuke Miyazaki, Hiromasa Iwai, Yoshihiro, Kyoto University</i>

15:30 – 15:45	BREAK
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Time	Wednesday, 3 December, Academic Building, HKUST			
	Track 4 Venue: 2131A	Track 5 Venue: 2131B	Track 6 Venue: 2132A	Track 7 Venue: 2132B
	Geotechnical Engineering Chair: <i>Yasuo Sawamura</i>	Construction Materials Chair: <i>BOONCHAI STITMANNAITHUM</i>	Construction Materials Chair: <i>Withit Pansuk</i>	Hydraulic Engineering Chair: <i>Jiarui Lei</i>
14:00 – 15:30	Anomaly Detection for Landslide Early Warning Using Quantile Regression of Tilt Sensor Data <i>Tomoki Nakazora, Hideaki Yasuhara, Kyoto University</i>	An overview on the role of recycled carbon fibers and low-carbon limestone calcined clay cement (LC3) in improving heating stability under freeze-thaw attack <i>Faizan Ali, Jihoon Park, H. K. Lee, Korea Advanced Institute of Science and Technology</i>	A BIM-Based Framework for Quantifying Embodied Carbon Uncertainty in Early-Stage Structural Design <i>TING-YUN, HSIEH, YING-CHIEH, CHAN, National Taiwan University</i>	Integrating Hydrological and Economic Assessments of Soil Infiltration Enhancement for Urban Flood Resilience <i>Xingwei Ren, Zeyu Guo, Qingli Li, Zhengzheng Zhou, Xin Chen, Jiajie Liao, Tongji University</i>
	Physics-Informed Neural Networks for Simulating Permeability within Rock Fractures <i>Soma Konishi, Hideaki Yasuhara, Hiromasa Iwai, Kyoto University</i>	Aqueous Carbonation Technology to Enhance Shape Stability of Cement-based Materials Using Monoethanolamine Solution <i>Seung Mo Kim, Sung Ho Han, Jae Hong Kim, Korea Advanced Institute of Science and Technology</i>	A Novel Steel Passivation Mechanism in LC3 Concrete <i>Qiang You, National University of Singapore</i>	Spatial distribution patterns of non-stationary extreme precipitation under changing environment in the Yangtze River Delta <i>Nuo Lei, Zhengzheng Zhou and Shuguang Liu, Tongji University</i>
	A Simplified Method for Deriving Volumetric Water Content Using a Multi-Spectral Intensity <i>Yasunari Kijihira, Yusuke Miyazaki, Tanawat Tangjarustritaratorn, Shizuka Eshiro, Yohei Takara, Takayuki Imamura, Kyoto University</i>	Automation in Construction Technology Based on Vertical Precast Printing <i>Gwang Min Park, Jae Hong Kim, Korea Advanced Institute of Science and Technology</i>	Molecular insights into the onset of calcium silicate hydration <i>Xinhang Xu, National University of Singapore</i>	The Contribution of Lacustrine Groundwater Discharge to Lake Eutrophication <i>Ya Jiang, Zhi Li, Tongji University</i>
	A New Plane Model for Transversely Isotropic Materials in Ordinary State-Based Peridynamics <i>Taiga Kato, Fan Zhu, Zirui Lu, Yosuke Higo, Kyoto University</i>	Active rheology control based on magnetorheological of cement mortar incorporating various magnetic particles <i>Jong su Choi, In Kuk Kang, Jae Hong Kim, Korea Advanced Institute of Science and Technology</i>	Thermal Activation and Hydration Behaviour of Singapore Waste Sludge and Marine Clay as SCMs <i>Zihui Zhan, National University of Singapore</i>	Prediction of Chlorophyll-a in China's Largest Freshwater Lake Using a Spearman-VMD-RF Hybrid Model <i>Chengming Luo, Xihua Wang, Tongji University</i>
	Ground Characterization Using Drilling Performance Data and Excavation Analysis of Deeply Overburden Tunnels Based on Damage Theory <i>Hinako Hachisu, Kiyoshi Kishida, Kyoto University</i>	Investigation of Water Permeability Resistance of One-Part Alkali-Activated Concrete <i>Ruka Horikawa, Akihiko Sato, Lin An, Kunitomo Sugiura, Risa Matsumoto, Yasuo Kitane, Kyoto University</i>	Boosting The Performance of LC3– Application as Structural and Soil Improvement Material <i>Xinyu Zeng, National University of Singapore</i>	Revealing Spatial Heterogeneity in Algal Bloom Drivers using Interpretable Machine Learning at Basin Scale <i>Yan Dai, Xihua Wang, Tongji University</i>

	CFD-DEM Analysis of the Effect of Material Mixture in Grouting on Permeability <i>Takuma YAMAGUCHI, Takako MIYOSHI, Kiyoshi KISHIDA, Kyoto University</i>	Strategy for improving buildability of 3D printing concrete by using CO2 mixing <i>Long Li, Tongji University</i>		Unlocking the Potential of Aqueous Fe(II) in Groundwater: A Thermodynamic Modulation Strategy Using Micro-Nanobubbles <i>Huang Xiaoyi, Dai Chaomeng, Tongji University</i>
15:30 – 15:45	BREAK			

Time	Wednesday, 3 December, Academic Building, HKUST			
	Track 1 Venue: 2130A	Track 2 Venue: 2130B	Track 3 Venue: 2130C	
	Construction Engineering and Management Chair: <i>Nakhon Kokkaew</i>	Geotechnical Engineering Chair: <i>Ming Peng</i>	Geotechnical Engineering Chair: <i>Mamoru Kikumoto</i>	
15:45 – 17:30	Developing a Framework for an LLM-based AI Agent to Support Dimensional Inspection of Building Elements <i>Duyen Minh Ngoc Pham, Vachara Peansupap, Tanit Tongthong, Chulalongkorn University</i>	Long-term permeability observation of fractured granite under saturated solution flow-through tests with X-ray CT analysis <i>Zhiqi Li, Sho Ogata, Shinichiro Nakashima, Hideaki Yasuhara and Kiyoshi Kishida, Kyoto University</i>	Seismic Response of Shallow Foundations on Sandy Ground with Different Deposition Angles <i>Zhiyuan Yang, Kyohei Ueda, Ryosuke Uzuoka, Kyoto University</i>	
	A BIM-Enabled Platform for Digital Supply Chain Management in Modular Steel Construction <i>Tanyapak Sawatpanich, Veerasak Likhitruangsilp, Chulalongkorn University</i>	Constitutive Model of Soft Rock Coupled with Swelling and Strength Deterioration : Numerical Consideration on Tunnel Invert Heaving <i>Yasuhiro Kanjo, Mamoru Kikumoto, Kiyoshi Kishida, Kyoto University</i>	Thermal-mechanical response of prefabricated energy shafts in coastal areas under thermo-hydro-mechanical coupling conditions <i>Xin Wang, Jie Zhou, Tongji University</i>	
	A BIM-Enabled Platform for Assessing Construction Material Values in Building Renovation Projects <i>Nhi Y Nhi Tran, Chulalongkorn University</i>	Centrifugal Model Tests on the Effect of Inner Piles on the Vertical Bearing Capacity of Steel Pipe Sheet Pile Foundations <i>Ryuichi Kato, Yasuo Sawamura, Kyoto University</i>	Seismic deformation of tunnels considering spatial variability of soil <i>Li Guo, Dongmei Zhang, Zhongkai Huang, Zhanhu Yao, Tongji University</i>	
	The Efficacy of Green Bonds in Financing Large-Scale Sustainable Infrastructure Projects <i>Xin Li, The Hong Kong University of Science and Technology</i>	A Numerical Model to Analyze Slaking Behavior of Soft Rock Subjected to Wetting-Drying Cycles <i>Risa Komuro, Mamoru Kikumoto, Kiyoshi Kishida, Kyoto University</i>	High-Pressure CO2 Adsorption Behavior and Thermodynamic Analysis of Different Clay Minerals <i>Guohang Tang, Xianfeng Ma, Jiawei Ma, Bolong Ma, Tongji University</i>	
	Development of a Risk Identification Model for Construction contracts Based on Large Language Models <i>Chenlong Xu, The Hong Kong University of Science and Technology</i>	Rock Joints Modelling of Friction Recovery Based on Critical State Theory <i>Yuki Matsuoka, Mamoru Kikumoto, Sho Ogata, Kiyoshi Kishida, Kyoto University</i>	Crystalline swelling characteristics of montmorillonite in GMZ bentonite <i>Yiran Zhang, Yucheng Li, Yonggui Chen, Tongji University</i>	

	<p>An AI-Driven and Fully Automated Scan-to-BIM Workflow Framework for the Residential Construction Industry <i>Xiang GAO, The Hong Kong University of Science and Technology</i></p>	<p>Fundamental Research on the Structural Responses of a Shield Tunnel Under Normal Active Fault Displacement <i>Guanxiong Zeng, Yasuo Sawamura, Kiyoshi Kishida, Kyoto University</i></p>	<p>Development and Application of Soil Moisture Sensor Based on POF <i>Haojin Zhang, Haihua Zhang, Yihan Hu, Han Han, Qianman Chen, Tongji University</i></p>
	<p>From Components to Context: A Dual-path Study of Individual's Digital Leadership in Project-Driven Environments <i>YUXUAN DU, The Hong Kong University of Science and Technology</i></p>		

Time	Wednesday, 3 December, Academic Building, HKUST			
	Track 4 Venue: 2131A	Track 5 Venue: 2131B	Track 6 Venue: 2132A	Track 7 Venue: 2132B
	Construction Materials Chair: <i>Atichon Kunawisarut</i>	Hydraulic Engineering Chair: <i>Jinwoo</i>	Structural Engineering Chair: <i>Risa Matsumoto</i>	Hydraulic Engineering Chair: <i>Zhengzheng Zhou</i>
15:45 – 17:30	<p>Enhancing Concrete Performance with Graphene Quantum Dots: A Study on Mechanical Properties and Durability in Aggressive Environments <i>Thwe Thwe Win, Lapyote Prasittisopin, Withit Pansuk, Chulalongkorn University</i></p>	<p>Identification and Interpretation of Hydrometeorological Determinants of Traffic Accidents Through ICEEMDAN-TDIC Analysis: A Case Study in Taipei <i>Billy Jeremiah Wilianto, Christina Wan-Shan Tsai, National Taiwan University</i></p>	<p>Prediction of Pressure-Impulse Diagram of RC Columns Exposed to Blast Loading <i>Hyunseung Chung, Hyo-Gyoung Kwak, Korea Advanced Institute of Science and Technology</i></p>	<p>European Heatwave Patterns and Forcing: An EOF–ICEEMDAN Perspective <i>Yu-Feng Chen, Christina Tsai, National Taiwan University</i></p>
	<p>An Application of Laminated Bamboo as an Alternative Material for Railway Sleepers <i>Piyanan Juntaweck and Chayut Ngamkhanong, Chulalongkorn University</i></p>	<p>A Simplified Modeling Framework for Cross-Shore Profile Evolution <i>Novi Andriany Teguh, Gene Jiing-Yun You, National Taiwan University</i></p>	<p>Pseudo-nonlinear Structural Analysis of RC Members by Non-layered Sectional Method <i>Gyeonghwan Won, Hyo-Gyoung Kwak, Korea Advanced Institute of Science and Technology</i></p>	<p>Wind Speed Prediction Using Multivariate Variational Mode Decomposition with Graph Neural Networks for Extreme Storm Events in Taiwan <i>Jui-An Cheng, Christina W. Tsai, National Taiwan University</i></p>
	<p>A Retrieval-Augmented Generation Framework for Standardizing Construction Schedule Terminologies <i>Phuong-Linh Le, Deanne Callista Radiany Wibowo, Raynard Vincent Elsantio, Jacob J. Lin, National Taiwan University</i></p>	<p>Strategic Water Demand Assessment for Bihar: A Pathway to Resilient Resource Management <i>Pradyumna Kumar Behera, Christina W. Tsai, National Taiwan University</i></p>	<p>A hybrid in-situ inspection method based on thermal motion magnification and pulse phase thermography for identifying subsurface defects in directed energy deposition <i>Peipei Liu, Yilei Xiong, Subin Shin, Kiyoon Yi, Liu Yang, Hoon Sohn, Zhao-Dong Xu, Korea Advanced Institute of Science and Technology</i></p>	<p>A Physics Informed Deep Learning Framework for Unsteady Turbulence Modeling <i>Fredrik Dubay-Myklebust, National University of Singapore</i></p>
	<p>Multi-modal Data Fusion for Post-earthquake Building Damage Assessment <i>Shao-Ming Lu and Szu-Yun Lin, National Taiwan University</i></p>	<p>Reversible Bio-Sorption and Solute Transport in Floating Vegetated Wetlands <i>Sourav Hossain, Christina W. Tsai, National Taiwan University</i></p>	<p>Parametric Study on Cylindrical Concrete Compression using the Continuous Surface Cap Model <i>Hongwon Lee, Dawon Park, Jung-Wuk Hong, Korea Advanced Institute of Science and Technology</i></p>	<p>Integrating Protective Concrete Planter for Mangrove Seedling Restoration and Coastal Protection <i>Jiarui Lei, National University of Singapore</i></p>

Decision Support Optimization of Urban Greening Schemes for Sustainable Construction <i>Yu-Cian Lin, Tuan Anh Phan, Ying-Chieh Chan, National Taiwan University</i>	Coupling Fractional Entropy and Stochastic Particle Tracking to Quantify Anomalous Diffusion in Suspended Sediment Transport <i>Hsuan-Hung Wu, Christina W. Tsai, National Taiwan University</i>	Numerical Study on Blast Effects of Dynamic TNT Charges Using ALE Method <i>Yunmin Kim, Tae Hee Lee, Jung-Wuk Hong, Korea Advanced Institute of Science and Technology</i>	Wave-mud Interactions: Numerical and Experimental Studies <i>Carlos Perez Moreno, National University of Singapore</i>
A Two-Stage Framework for Cross-Modal Credibility Analysis of Social Media Posts during Natural Disasters <i>Tzu-Chun Lo and Szu-Yun Lin, National Taiwan University</i>		Smart Control System for Enhancing Seismic Performance in the Horizontal and Vertical Vibrations of a Cabinet <i>Seohyun Min, Youjin Kim, Hyung-Jo Jung, Korea Advanced Institute of Science and Technology</i>	

Time	Thursday, 4 December, Academic Building, HKUST			
	Track 1 Venue: 2130A	Track 2 Venue: 2130B	Track 3 Venue: 2130C	
	Structural Engineering Chair: <i>Xin Meng</i>	Structural Engineering Chair: <i>Kyohei Noguchi</i>	Structural Engineering Chair: <i>Hyo-Gyoung Kwak</i>	
9:00 – 10:30	Seismic Wavefield Estimation near Earthquake Source Based on Physics-Informed Neural Networks <i>Yujiro Fukuda, Ayaka Nakatsuji, Masayuki Inatani, Hiroyuki Goto, Kyoto University</i>	Numerical study on the ultimate load carrying capacity of suspension bridge with cable corrosion <i>Weihang Cheng, Yasuo Kitane, Risa Matsumoto, Akihiko Sato, Kyoto University</i>	Study on Galloping Instability of Rectangular Cylinder with Angles of Attack based on Surface Pressure <i>Hiroki Kawabe, Kyohei Noguchi, Hisato Matsumiya, Kaisei Shimobe, Tomomi Yagi, Kyoto University</i>	
	Proposal of Cable Tension and Bending Stiffness Estimation Method Based on Mode Shape Measurements with Correction for Accelerometer Installation Angle Errors <i>Tetsu Kato, Aiko Furukawa, Tomohiro Takeichi, Kyoto University</i>	Experimental Study on Estimating Horizontal Displacement of Steel Piers Using Deflection Angles <i>Ryutaro Nishii, Akihiko Sato, Kunitomo Sugiura, Yasuo Kitane, Risa Matsumoto, Kyoto University</i>	Study on Snow Accretion Shape on Structures Considering Weather Conditions and the Impact Behaviour of Snow Particles <i>Kentaro Haruna, Hisato Matsumiya, Kyohei Noguchi, Chiho Kajiyama, Ryuki Matsumoto, Kengo Sato, Kazuma Togashi, Tomomi Yagi, Kyoto University</i>	
	Seismic Performance of Stone Arch Bridges Considering Foundation Settlement and Inclination Induced by Scour and Erosion <i>Keita Yamashita, Aiko Furukawa, Kyoto University</i>	Bonding Behavior of One-Part Alkali-Activated Materials Concrete Activated by Sodium Metasilicate Nonahydrate using Pull-Out Specimen <i>Napath Kraivisitkul, Lin An, Akihiko Sato, Kunitomo Sugiura, Risa Matsumoto, Yasuo Kitane, Kyoto University</i>	Evaluation of Response Amplitudes of Vortex-Induced Vibration of Structures Using Unsteady Aerodynamic Force Coefficients <i>Soichiro Yamaguchi, Marouane Fakhy, Hisato Matsumiya, Kyohei Noguchi, Tomomi Yagi, Kyoto University</i>	
	Study for quantitative evaluation of fatigue crack characteristics in welded joints using a method for improving tensile residual stress <i>Tomohiko Harada, Risa Matsumoto, Yasuo Kitane, Akihiko Sato, Seiichi Tsutsumi, Kyoto University</i>	Bayesian MCMC estimation for generation of VAR model <i>Sunwoo Lee, Chul-Woo Kim, Kyoto University</i>	Study on Relationship Between Torsional Rigid Body Vibration and Wake-induced Vibration in Two Parallel Cylinders <i>Satsuki Shimojo, Hisato Matsumiya, Ikuto Murota, Kyohei Noguchi, Tomomi Yagi, Kyoto University</i>	

	Experimental Study on Corrosion Characteristics of CFRP-Bonded Steel Plate by 18-month Salt Water Immersion Test <i>Chihiro Fukunaga, Yasuo Kitane, Yuji Miyagawa, Kenji Fujita, Risa Matsumoto, Kunitomo Sugiura, Takahiro Matsui, Kyohei Shimozawa, Akihiko Sato, Kyoto University</i>	Quantification of the Value of Structural Health Monitoring information combined with expert heuristics <i>Kei Akutsu, Zhihao Wang, Chul-Woo Kim, Kyoto University</i>	Experimental Study on the Effects of Discrete Fairings on Torsional Aerodynamic Vibrations of Structures <i>Saeri Hara, Thet Ei, Kyohei Noguchi, Hisato Matsumiya, Tomomi Yagi, Kyoto University</i>
	Corrosion Durability of Repainted Coatings after CW Laser Cleaning of Painted Steel Plates with C-5 Paint Systems <i>Shusuke Ryonai, Yasuo Kitane, Risa Matsumoto, Akihiko Sato, Manami Saito, Shumpei Fujio, Kazuyuki Umeno, Kyoto University</i>	Bridge damage detection using maximum displacement ratio <i>Akito Hiro, Chul-Woo Kim, Kyoto University</i>	Study on Transport of Snow Particles and Their Collisions with a Square Prism Using CFD <i>Ryuki Matsumoto, Kyohei Noguchi, Hisato Matsumiya, Chiho Kajiyama, Kentaro Haruna, Tomomi Yagi, Kyoto University</i>
10:30 – 10:45	BREAK		

Time	Thursday, 4 December, Academic Building, HKUST			
	Track 4 Venue: 2131A	Track 5 Venue: 2131B	Track 6 Venue: 2132A	Track 7 Venue: 2132B
	Environmental Engineering Chair: <i>Kevin Sze Chiang Kuang</i>	Geotechnical Engineering Chair: <i>Suched Likitlersuang</i>	Geotechnical Engineering Chair: <i>Veerayut Komolvilas</i>	Geotechnical Engineering Chair: <i>Hideaki Yasuhara</i>
9:00 – 10:30	Integrated Analysis of Multi-Source Environmental Drivers on River Water Quality: A Case Study of the Yamato River Basin, Japan <i>Xianbao Zha, Masafumi Yamada, Tomoharu Hori, Kyoto University</i>	Numerical Simulation of Soil Arching in Trapdoor Tests <i>Ying-Hsuan Chen, Louis Ge, Yu-Wei Hwang, National Taiwan University</i>	A Hybrid Data-Driven Approach for Predicting Retaining Wall Deformation <i>Kai Yan, Linlong Mu, Tongji University</i>	Finite Element Modelling and Stability Assessment of a Deep Excavation Failure in Soft Clay <i>Yen-Ching Cheng, Kuo-Hsin Yang, National Taiwan University</i>
	A Hybrid Intelligent Algorithm for Small-Sample Tunnel Carbon Emission Data Generation <i>Yuxuan Li, Linlong Mu, Tongji University</i>	Determining Hydraulic Conductivity of Northern Taiwan Sandstone through Triaxial Permeability Tests <i>Szu-Han Chen, Louis Ge, National Taiwan University</i>	Application of Artificial Intelligence to Enhance 3D Subsoil Modelling in Bangkok <i>Janejira Khamjan, Weeradetch Tanapalungkorn, Manop Kaewmorachoen, Suched Likitlersuang, Chulalongkorn University</i>	Thermo-Hydro-Mechanical Responses of an Energy Raft Foundation in Taipei <i>Shao-Chi Yang, Kuo-Hsin Yang, Ignatius Tommy Pratama, National Taiwan University</i>
	From Geological Historical Evolution to Intelligent Quantitative Assessment to Analyze Underlying Logic, Research Progress, Bottleneck, and Future Optimization Framework of Landslide Susceptibility Assessment in the Southeast Coastal <i>Yuxuan Xue, Yu Huang, Zhen Guo, Tongji University</i>	Experimental Study on the Liquefaction Behavior of Low Plasticity Ternary Soil Mixtures <i>Pei-Yun Lee, Yi-Ju Lin, Louis Ge, National Taiwan University</i>	3D Subsoil Model of Yangon City, Myanmar Using XGBoost-Based Machine Learning <i>Myo Thiri Aung, Suched Likitlersuang, Chulalongkorn University</i>	Effects of Strain Rate on CRS Consolidation Tests <i>Yu-Chiao Wang, Yi-Qian Lu, Louis Ge, National Taiwan University</i>

	Knowledge-informed BIM-LCA integration for environmental assessment in metro station construction <i>Linghui Xie, The Hong Kong University of Science and Technology</i>	Liquefaction Behavior of Non-Plastic Binary Mixtures <i>Tzu-Shan Huang, Yi-Ju Lin, Louis Ge, National Taiwan University</i>	Influence of Plane Strain Ratio on Numerical Simulation of Excavation: A Case Study in Phnom Penh <i>Rosaka Pitou, Raksiri Sukkarak, Suched Likitlersuang, Chulalongkorn University</i>	Berm-Effect Modification Factor for the Equivalent Thickness Model in Excavation Analysis <i>Ting-Yu Liu and Jiunn-Shyang Chiou, National Taiwan University</i>
	Spatial-Temporal Variations of Particulate Matter Influenced by Hydro-Meteorological and Gaseous Pollutants Factors: A Case Study of Taiwan Coal-Fired Power Plants <i>Szu Tung Yao, Christina Tsai, National Taiwan University</i>	Substructure Method of Pile Foundations Considering Soil Nonlinearity <i>Siao-Jhuang Wang, Jiunn-Shyang Chiou, National Taiwan University</i>	Field-Driven Machine Learning Approach for Estimating Wet Bored Pile Capacity in Bangkok Soft Clay <i>Chawit Preechatiwong, Chayangoorn Sonsena, Veerayut Komolvilas, Chulalongkorn University</i>	Mooring system-seabed interaction for floating wind turbines <i>Shengjie Rui, National University of Singapore</i>
	Learning Optimal Building Combinations for Energy Self-Sufficiency Using Graph Attention Networks <i>Jaewon Kim, Youngchul Kim, Korea Advanced Institute of Science and Technology</i>	Lateral Resistance of Large Diameter Piles Considering Pile Driving Effect <i>Chen-Wei Sung, Sumin Song, Yu-Wei Hwang, National Taiwan University</i>	A Multi-Scale Evaluation of Calcite Precipitation in MICP Specimen <i>Amalia Ula Hazhiah, Louis Ge, National Taiwan University</i>	Assessing the Integrity of a Laboratory-Scale Cement-Bentonite Wall through In-Situ Non-Destructive Testing <i>Kai En Low, National University of Singapore</i>
10:30 – 10:45	BREAK			

Time	Thursday, 4 December, Academic Building, HKUST			
	Track 1 Venue: 2130A	Track 2 Venue: 2130B	Track 3 Venue: 2130C	
	Structural Engineering Chair: <i>Tomomi Yagi</i>	Structural Engineering Chair: <i>Youngchul Kim</i>	Structural Engineering Chair: <i>Chayut Ngamkhanong</i>	
10:45 – 12:30	Experimental Study on Seismic Isolation and Sloshing Mitigation of LNG Storage Tank under Soft Soil Site <i>Cong Liao, Qingjun Chen, Xi Chen, Yikun Liu, Tongji University</i>	Enhancing the Accuracy of Real-Time Hybrid Simulation using Machine Learning considering Phase Lag <i>Ryota Tsutaba, Keita Uemura, Yoshikazu Takahashi, Kyoto University</i>	Construction and Health Monitoring of Externally Prestressed Concrete Frame Structures <i>Watanachai Smittakorn, Chulalongkorn University</i>	
	Seismic performance of self-centering coupled shear walls with open-close gap dampers <i>Xinghua Li, Zheng Lu, Yan Wang, Tongji University</i>	Fundamental Study on Hybrid Simulation with Data Assimilation for Evaluating Uncertainty in Member Restoring Forces <i>Hiroki Onishi, Keita Uemura, Ryota Tsutaba, Yuya Morishita, Yoshikazu Takahashi, Kyoto University</i>	Research on the Reliability of Fatigue Performance of Deck-to-U-rib Joint Based on BPNN and Bridge Detection and Monitoring Data <i>Ruotong Wang, Xu Jiang, Tongji University</i>	
	Energy-Oriented Design and Experimental Validation of an Inerter-Based Combined Isolated Liquid Storage Tank <i>Qian Tao, Sunwei Ding, Ruifu Zhang, Tongji University</i>	Effect of Viscous Damper Modeling Approaches on Seismic Response of Steel Arch Bridges <i>Taiju Kimbara, Keita Uemura, Yoshikazu Takahashi, Kyoto University</i>	Thermal Effect Analysis of Reinforced Concrete Pylon Lower Cross-Beam Based on Multi-Physics Coupling <i>Jianwei Zhang, Dalei Wang, Yunlong Ma, Tongji University</i>	
	Integrating Architectural and Structural Design with Cascaded Diffusion Models: The EESD Framework <i>Hao Leng, Ying Zhou, Tongji University</i>	Finite Element Analysis on the Effect of Girder Web Stiffeners on Seismic Damper Connections in Bridges <i>Aoi Sawada, Keita Uemura, Yoshikazu Takahashi, Kyoto University</i>	A novel nonlocal macro-mesoscale consistent damage model for stochastic fracture analysis of quasi-brittle material <i>Jiankang Xie, Jianbing Chen, Tongji University</i>	

	A generic modelling approach for structural dynamics of the horizontal axis wind turbine <i>Zekun Ma, Peng Huang, Tongji University</i>	Evaluation of Crack Behavior in CFRP-Wrapped Hollow RC Columns Using the Extended Finite Element Method <i>Yuki Hirai, Keita Uemura, Daiki Ichikawa, Yoshikazu Takahashi, Kyoto University</i>	Physical modelling and feature analysis of soil vibration caused by leakage in buried fluid-filled pipelines <i>Yaohua Huang, Suzhen Li, Tongji University</i>
	Influences of rockfall impact angle and rotational velocity on dynamic behavior of RC slabs <i>Linke Yang, Hao Wu, Liangliang Ma, Tongji University</i>	Rocking Isolation Structural Systems and Devices Inspired by Shaka Pagoda and the Parthenon <i>Liang-Jiu Jia, Yuao Lin, Ping Xiang, Hongtai Zhang, Tongji University</i>	Investigation into the Reinforcement of Wind Turbine Tower Foundation with Embedded Steel Ring <i>Ziwei Wang, Dongping Huang, Zheng Li, Tongji University</i>
12:30 – 14:00	LUNCH (Venue: In front of Lecture Theater A, HKUST)		

Time	Thursday, 4 December, Academic Building, HKUST			
	Track 4 Venue: 2131A	Track 5 Venue: 2131B	Track 6 Venue: 2132A	Track 7 Venue: 2132B
	Structural Engineering Chair: <i>Anqi Gu</i>	Transportation Engineering Chair: <i>Siwarak Unsiwilai</i>	Transportation Engineering Chair: <i>Sorawit Narupiti</i>	Transportation Engineering Chair: <i>Jittichai Rudjanakanoknad</i>
10:45 – 12:30	New insights on fatigue crack causes of diaphragm cutout in Orthotropic Steel Decks <i>Xu Jiang, Zhilin Lyu, Xuhong Qiang, Tongji University</i>	Hybrid Approach for Coordinated Traffic Signal Control Capturing Offset-Split Interdependency Using Average Phase Statistics <i>Hyunsoo Kim, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Sequence-Based Analysis and Application Strategies of Autonomous Vehicle Crash Scenarios <i>Yeonwoo Yu, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Spillback Mitigation through Coordinated Adaptive Signal Control in Dense Urban Networks <i>Ya Moen, Sorawit Narupiti, Chulalongkorn University</i>
	Study on Fatigue and Corrosion Performance of Fillet Welds under the Influence of Residual Stress <i>Daqian Cao, Xu Jiang, Xuhong Qiang, Tongji University</i>	Multi-level Traffic Simulation for Urban Networks Using Dynamic Level Assignment for Real-World Network under an Event Condition <i>Sujae Jeon, Yeeun Kim, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Characteristics of Autonomous Vehicle Behaviors and Their Traffic Impacts at Signalized Intersections in Mixed Traffic Situations <i>Sharon Kim, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Short-Term Speed Prediction on Urban Roads Using Machine Learning <i>Shun Lai Aung, Sorawit Narupiti, Chulalongkorn University</i>
	Shaking table tests on restoring capability of friction pendulum bearings <i>Yifei Zhang, Aijun Ye, Tongji University</i>	SwinTSE: Urban Traffic State Estimation for Camera Undetected <i>Haechan Cho, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Temporal Knowledge Graph-Based Accident Prediction from Dashcam <i>Keunhee Cho, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Car-following Model for Autonomous Vehicles Under Heterogeneous Road Conditions: Integrating Road Surface Roughness and Slope Gradient <i>Yiyi Wang, National University of Singapore</i>
	Shrinkage and Cracking Behavior of UHPC with Different Steel Fiber Contents <i>Kan Dang, Zhiping Yu, Ying Li, Chen Xu, Tongji University</i>	Utility-driven Idle Vehicle Repositioning Model for Ride-Hailing System <i>Jihu Kim, Korea Advanced Institute of Science and Technology</i>	Simulation-Based Assessment of Urban Traffic Impact from Trackless Rapid Transit <i>Dongheon Lee, Sujae Jeon, Pei Jia Pok, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Lightweight Deep Learning Models for Pavement Condition Assessment <i>Jun Heng Wisely Ong, National University of Singapore</i>

	Study on the Tensile Mechanical Behavior of MCL Composite Dowel Connectors <i>Fengyao Liu, Qingtian Su, Xinhui Wang, Tongji University</i>	Agent-Based Modeling for Equitable EV Infrastructure Planning: A Comparative Analysis of Policy Mechanisms <i>Pei Jia Pok, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Age-Based Subjective Evaluation of Pavement Markings Under Dry and Wet Conditions in a Simulated Darkroom Setting <i>Chiapei Chou, Yi Li, Shengyao Yu, Yihsiang Kao, National Taiwan University</i>	Formally Verifying Multi-Region Perimeter Control with Neural Vector Lyapunov Certificates <i>Jingyuan Zhou, National University of Singapore</i>
	Dynamic Response of Piping System in Nuclear Power Plant under Aircraft Impact Conditions <i>Mengmeng Chen, Zhiguang Zhou, Tongji University</i>	DRIFT Open Dataset: A Drone-Derived Intelligence for Traffic Analysis in Urban Environmen <i>Hyejin Lee, Seokjun Hong, Byeongjoon Noh, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Cultural Differences in Travel Risk Perception and Adaptation among International Students: A Case Study at Bangkok and Vicinity <i>Md Sanaullah Shamim, Dr. Kasem Choocharukul, Chulalongkorn University</i>	Modeling and Predicting Daily Travel Patterns from GPS Trajectories: A Semantic Sequence Learning Framework <i>Pengxi Liu, National University of Singapore</i>
	Efficient unsupervised domain adaptation for crack segmentation with interpretable Fourier Morphology blending and uncertainty-guided self-training <i>Saheli Bhattacha Rya, The Hong Kong University of Science and Technology</i>	Optimization of Modular Autonomous Electric Vehicle System with Mixed-Integer Linear Programming <i>Chaemin Na, Hwasoo Yeo, Korea Advanced Institute of Science and Technology</i>	Evaluating Safety and Efficiency in Multi-Incident Freeway Traffic with Connected and Autonomous Vehicles <i>Mahbub Hassan, Sorawit Narupitti, Chulalongkorn University</i>	Real-time Coordination of Human Couriers and Drones for On-demand Food-Delivery Platforms: A Multi-stage Risk-aware Multi-agent Reinforcement Learning Framework <i>Yulong Hu, and Sen Li, The Hong Kong University of Science and Technology</i>
12:30 – 14:00	LUNCH (Venue: In front of Lecture Theater A, HKUST)			

Time	Thursday, 4 December, Academic Building, HKUST			
	Track 1 Venue: 2130A	Track 2 Venue: 2130B	Track 3 Venue: 2130C	Track 4 Venue: 2131A
	Structural Engineering Chair: <i>Tidarut Wisuthseriwong</i>	Structural Engineering Chair: <i>Xu Jiang</i>	Structural Engineering Chair: <i>Watanachai Smittakorn</i>	Others Chair: <i>Shengjie Rui</i>
14:00 – 16:00	Numerical Modelling of Reinforced Concrete Columns Strengthened by External Steel Collars and Steel Bars <i>Thin Zar Win, Pochara Kruavit, Sawekchai Tangaramvong, Anat Ruangrassamee, Chulalongkorn University</i>	Simulation analysis of an unbonded post-tensioned (UPT) wall building with strength asymmetric configurations <i>Anqi Gu, Yiqiu Lu, Ying Zhou, Tongji University</i>	Development of Low-Carbon, High-Strength, Engineered Cementitious Composites in Taiwan <i>Yi-Cheng Lu, Chia-Ying Chung, Wei-Hsiu Hu, National Taiwan University</i>	Multi-Agent Reinforcement Learning for Order Assignment and Payment Setting on Food-Delivery Platforms: The Implicit Algorithmic Biases <i>Zijian Zhao, and Sen Li, The Hong Kong University of Science and Technology</i>
	Vertical Vibration of an Embedded Rigid Annular Disk in Transversely Isotropic Unsaturated Medium <i>Kittiphan Yoonirundorn, Teerapong Senjuntichai, Chulalongkorn University</i>	Development and Electrochemical Characterization of Carbon Black-Modified Cement-Based Electrodes for Energy Storage Application <i>Chun-Wei Hsu, Chiao-Jung Yu, Wen-Cheng Liao, National Taiwan University</i>	Pre-Carbonated Furnace Slag: A Sustainable Supplementary Material for Low-Carbon Construction <i>Chia-Ying Chung, Yi-Cheng Lu, Wei-Hsiu Hu, National Taiwan University</i>	Towards Automated Urban Concept Planning: A Generative AI Approach <i>Chulhyun Kim, Youngchul Kim, Korea Advanced Institute of Science and Technology</i>
	Rehabilitation of Reinforced Concrete Beams by Externally Anchored Rebars <i>Nyan Soe Lynn, Watanachai Smittakorn, Chulalongkorn University</i>	Substructure Model for Simulating Column and BRB Responses in a Three-Story Steel Frame under Shaking Table Tests <i>Pei Hua Yu, Chung-Che Chou, National Taiwan University</i>	Study on the Effects of GGBS and Fly Ash on Carbon Sequestration of Concrete <i>You-Lin Huang, Yu-Hsiang Wen, Yin-Wen Chan, National Taiwan University</i>	A Systematic Review of Ontology and Knowledge Graph Applications in Urban Flood Management <i>Pamela Anna Joya, Youngchul Kim, Korea Advanced Institute of Science and Technology</i>

Fatigue Life Assessment of Prestressed Concrete Sleepers with Under Sleeper Pads <i>Nattapat Kimpitak, Chayut Ngamkhanong, Chulalongkorn University</i>	Mechanical properties of underwater 3D printed concrete from different water depths <i>Hao Zhang, National University of Singapore</i>	Investigation on the Framework of Concrete Design Codes Based on Target Service Life <i>Chang Chun-Cheng, Lin Kang, Liao Wen-Cheng, National Taiwan University</i>	Numerical Evaluation of Aerodynamic Characteristics for the NACA 2412 Airfoil <i>Sanghoon Kim, Homin Kim, Jung-Wuk Hong, Korea Advanced Institute of Science and Technology</i>
The Insufficiency of Spectral Acceleration for Estimating Friction Pendulum Bearing Displacements Compared to Instantaneous Power <i>Hsin-Fu Ho, Yin-Nan Huang, National Taiwan University</i>	Metal 3D printing in construction: from fundamental research to pilot applications <i>Xin Meng, National University of Singapore</i>	Experimental Analysis of Simplified Connections Between BRB and RC Frames Using Highly Flowable Strain Hardening Steel Fiber Reinforced Concrete <i>Wen-Cheng Hsu, Yun-Ting Sie, Wen-Cheng Liao, National Taiwan University</i>	IRMerge: Enhancing IMERG Infrared Precipitation Estimates with Land Surface Variables and Contributing Factors Analysis Using Explainable Machine Learning <i>Ho Tin Hung, Li-Pen Wang, National Taiwan University</i>
Analytical Solutions of Frequency Response and Parametric Analysis of Vehicle-Bridge Interaction System <i>Xian-Zheng Hong, Chia-Ming Chang, National Taiwan University</i>	Prediction and Analysis of Canton Tower Structural Dynamic and Static Responses Based on Machine Learning Model <i>Haixia Yang, The Hong Kong University of Science and Technology</i>	Experimental Study on Shrinkage Behavior of Self-Compacting Concrete with Portland Limestone Cement <i>Ting En Lu, Heng Yu Lai Wen Cheng Liao, National Taiwan University</i>	Designing Learning for An Undergraduate cCourse on Smart Cities: A Transdisciplinary Framework Integrating Relational Pedagogy and Industry Co-Teaching. <i>Kevin Sze Chiang Kuang, National University of Singapore</i>
Lifecycle Cost and Sustainability Analysis of Steel Building Structures <i>Alvin Tjahyadi, Chi-Jen Chen, Tung-Yu Wu, National Taiwan University</i>	Transverse mechanical characterization of full-culm bamboo via edge-bearing test <i>Giorgio Armand M. Robel I and Elias G. Dimitrakopoulos, The Hong Kong University of Science and Technology</i>	Intelligent Strain Field Reconstruction and Crack Quantification Using High-Resolution Distributed Fiber Optic Sensing <i>Xuanyi Lu, Sudao He, Shenghan Zhang, The Hong Kong University of Science and Technology</i>	Bridging Academic Learning and Real-World Urban Decision-Making : Gamified Simulation as a Catalyst for Design-Thinking and Collaboration in Smart-City Pedagogy <i>Kevin Sze Chiang Kuang, National University of Singapore</i>
Mamba meets crack segmentation <i>ZHILI HE, The Hong Kong University of Science and Technology</i>			The Sixth Team Member and Integrating Generative AI for Feedback and Reflection in Smart-City Studio Pedagogy. <i>Kevin Sze Chiang Kuang, National University of Singapore</i>