			EASEC-17 General Program				
Time	27/6/2022						
	Opening Ceremony						
zoom details	https://nus-sg.zoom.us/i/810041527137pwd=Y1A15nfsYXpLRHBPNIZtRTRXZIDUT09						
uctans		meeting ID: 886 8327 6911; password: Easec17 Opening Address by EASEC ISC chair					
1810-1820			Opening Address by Local Organizer Committee chair				
1820-1830		A	ward Presentation - Nishio Medal and Prize, EASEC Young Researcher Awa Master of Ceremony: Guoqing GENG	ırd			
1830-1915		"Metal additive manufacturing in construction: Developments and opportunities" - Prof. Leroy Gardner, Imperial College London					
1915-2000	"Title TBC" - Prof. Pietro Lura, ETH Zurich Session Co-chairs: Tamon UEDA and Chien Ming WANG						
	Session Co-chairs: Tamon UEDA and Chien Ming WANG						
Time			28/6/2022				
			Keynote Session				
zoom		http	os://nus-sg.zoom.us/j/81004152713?pwd=Y1A1SnFsYXpLRHBPNjZzRTRkZIJD	<u>UT09</u>			
details		"Gran	meeting ID: 886 8327 6911; password: Easec17 hene Origami Enabled Metamaterial Structures" - Prof. Jie YANG, RMIT Un	harriby			
1100-1145 1145-1230			mate change through adaptation and mitigation measures linked with eco				
1143-1230		Towards a resilient and abundant dipan pay under the	Session Co-chairs: Sritawat KITIPORNCHAI and Paul H.F. LAM	System Services - From Just Justuck, Office Stry of Foryo			
1230-1330			Lunch				
1330-1530	Symposium 1: Sustainable Binding Materials	Symposium 2A: Seismic Resilient Structures	Symposium 4: Smart Construction & Management	Parallel session A: Advanced Transportation Insfrastructure and System	Parallel session B: Composite Materials and Structures		
	Chairs: Guoqing GENG and Jiaqi LI	Chairs: Songye ZHU and Bin WANG	Chairs: Justin Ker-Wei YEOH and Qian WANG	Chairs: Lihai ZHANG and Yuanfeng DUAN	Chairs: Johnny HO and Binglin LAI		
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	Low-carbon Concrete Made with Waste Glass as SCM for Cement Replacement - Zhiyu Luo, Hongjian Du	Development of Energy Dissipation Walls with Oil Dampers and Totally Reinforced Support Members Using Pre-Stress - R. Sakamoto, K. Matsuda, S. Hanai	Potential Application of Smart Contracts in the Indonesian Construction Industry - Kartika Wulandary, Kriengsak Panuwatwanich, Michael Ward Henry	Application of ai-based deformation extract function from a road surface video to a road pavement condition assessment system - <i>Hisao Emoto, Miori Numato, Atsuki Shiga</i>	Numerical Simulation and Data-Driven Analysis on the Biaxial Behavior of High Strength Steel Reinforced Concrete Composite Columns - Bing-Lin Lai, Jia-Hui Zhao, J. Y. Richard Liew, Wei-Kai Tan		
	Study of Methods for Improving Strength and Durability of Low-Quality Recycled Aggregate Concrete - R. Yuya, N. Matsuda, M. Kojima, T. Iyoda	Comparative Numerical Study on Efficiency of Various Energy Dissipating Devices used in Hybrid Post-Tensioned Shear Wall - Shubham Tiwari, S.R. Dash, G. Mondal	Construction Process Simulation Facing Digital Twin - Miaosi Dong, Bin Yang, Shanshan Jiang, Boda Liu	Bridge roughness identification using response of a moving two-axle vehicle - Z.L. Wang, B.Q. Wang, Y.B. Yang	Experimental study on the uni-axial behaviour of MSCFST columns considering concrete's wet packing density - J.H. Mo,M.R. Zeng, S.J. Yang, J.C.M. Ho, M.H. Lai		
	A Study on Strength and Durability of Mortar Using Low-Quality Recycled Fine Aggregate with Accelerated Carbonation - Y. Inoue, N. Matsuda, Y. Nishioka, T. Iyoda	Three-dimensional FEM simulation of hysteretic performance of traditional Chinese dou-gong connections - Xiaogang Zhang, Xiaobin Song, Jingliang Dong	Establishment and application of multi-agent simulation system based on on-site construction performers - B.D. Liu, B. Yang, Yilong Han, J.Z. Xiao, M.S. Dong	Influence of environmental changes in signal energy based damage identification in bridges under traffic load - <i>Riya Catherine GEORGE</i>	Load-carrying capacity of CFST columns: Current design rules assessment - X.L. Ou, J.C.M. Ho, M.H. Lai		
	Experimental Study to Improve Performance of Two-Stage Concrete without Injection Focusing on the Interfacial Transition Zone - Karen Midori Masunaga, Tomoki Nagoya, Takeshi Iyoda	Structural control using tuned Fluid Viscous Dampers (tFVD) for Performance Based Seismic Design - Arun Puthanpurayil, Rob Jury, David Wood, Weng Yuen Kam	Dynamic Neural Network for Structural Model Updating in Bridge Construction Process - Z.Y. Tang, T. Yin, G.D. Han	FACTORS AFFECTING THE DETERIORATION OF BITUMINOUS PAVEMENTS IN KHYBER PAKHTUNKHWA PROVINCE, PAKISTAN - Azam Amir,Michael Henry	Experimental study on the behaviour of CFST columns with steel slag concrete under axial compression - Y.H. Lin, Y.Y. Jin, J.C.M. Ho, M.H. Lai		
	Application of granite fines to substitute sand in Concrete production - Shunzhi Qian, Kang Hai Tan, Ziyang Li, Namyo Salim Lim, Lu Jinping, Wong Sook Fun	Seismic behavior of high-rise modular steel constructions with various module layouts - Fengwei Shi, Yang Ding, Liang Zong	Digital Fabrication for DfMA of a Prefabricated Bridge Pier - TK. Kim, DC. Nguyen, CS. Shim	Assessing the sustainability characteristics of modified asphalt concrete - Grace Muna, M. Henry	Experimental study on the post-fracture property of laminated glass - Zhifei CHEN; Suwen CHEN; Xing CHEN		
	Carbonation of Granite-dust Concrete in Tropical Environment - <i>Ni Zhen, Xudong Qian</i>	Research on Seismic Behavior of CFT-Frame-Buckling Restrained Steel Plate Shear Wall Structures Using Recycled Aggregate Concrete - Amer Mohammed, Yansheng Du, Zhihua Chen, Jin Huang	Study on the open data system for infrastructure maintenance and management - Junha Hwang, Kei Kawamura, Shuji Sawamura	Incremental dynamic analysis on a bridge with varying-friction functional bearing - Li-Wei Liu, Kuang-Yen Liu, Tsai-Ling Tsai	Study on Mechanism of Pore Modification by Polymer Particles - R. Yahiro, T. Kanda, K. Nishimura, T. Iyoda		
	Effects of Various Ions in Seawater on Chloride Ion Behavior in Mortar using Ground Granulated Blast-Furnace Slag - <i>Takuma Nakada, Yuko Ogawa, Kenji Kawai, Riya Catherine George</i>	Seismic Response Mitigation of Atrium Buildings with Truss-IMD System - Siyuan Li, Yung-Tsang Chen	Road Development Risks and Challenges in the Philippines - Kenneth Edward Torrella Fernando , Michael Henry	Investigation on recycling application of waste rubber tyres in concrete - Shengtian Zhai, Yunsheng Zhang, Laiboo Liu	BEHAVIOUR OF BAMBOO SCRIMBER BEAM-COLUMN JOINTS WITH BOLTED STEEL ANGLES AND T-STUBS - Jun Xiong, Shurong Zhou, Shao-Bo Kang		
					Service load level of mortise-tenon joints in Chinese traditional timber structures - Y Zhang, X.B Song		
1530-1545			Break				

Time			Keynote Session		
zoom	keynote session https://nus-sg.zoom.us/j/81004152713?pwd=Y1A1SnFsYXpLRHBPNjZzRTRkZJJDUT09				
details	meeting ID: 886 8327 6911; password: Easec17				
1545-1630	"Multi-scale Digital Twin Driven Research Efforts Toward Resilient and Sustainable Smart Cities" - Prof. Shang-Hsien (Patrick) Hsieh, National Taiwan University				
	Session Chair: Ser-Tong QUEK				
1630-1645			Break		
1645-1845	Parallel session C: Advanced and Sustainable Concrete Materials	Symposium 2B: Seismic Resilient Structures	Symposium 3: The Resilience of Steel and Composite Structures	Symposium 6: Resilient Infrastructural Solutions	Symposium 5: Teaching and Learning During and After Pandemic
	Chairs: Guoqing GENG and Jiaqi LI	Chairs: Ying ZHOU and Bin WANG	Chairs: Liuyang FENG and Xiaowei LIAO	Chairs: Dongming ZHANG and Xiaogang HE	Chairs: Hongjian DU and Sze Dai PANG
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	DEF Expansion Behavior of Hardened Cement Using Fine Aggregate generated by Blast Furnace Air Cooling Slag - Y.Ohashi, T.Iyoda	Seismic Performance of Isolated Liquid Storage Tanks Supplemented with Negative Stiffness and Inerter Based Dampers - Naqeeb Ul Islam, R.S. Jangid	Axial Behavior of High-Strength Rectangular Concrete-Filled Steel Tube Long Columns - <i>Zhichao Lai,Jie Yan,Dong Li</i>	Analysis of the Clearance Time of Roadblock Events Caused by Geohazards in Bhutan - <i>Dhan Raj Chhetri, Michael Henry</i>	Preliminary Implementation of Adaptive Learning for Teaching Structural Systems to Non-Engineering Students - Xinping Hu, Yang Miang Goh, Alexander Lin, Qizhang Liu
	Development of an eco-friendly ultra-high performance concrete based on waste frozen basalt aggregates from Tibetan plateau - Q. Luo, G.Q. Geng, T. Qin, P.F. Liu, B.N. Zhang, F.Y. Yuan, B. Chen	Experimental study on seismic behavior of liquid storage tanks subjected to vertical earthquakes - <i>Jieying Wu, Q. Q. Yu, X. L. Gu</i>	Tests on low cycle fatigue behavior of a stainless-clad bimetallic steel - Xlaowei Liao, Liuyang Feng, Huiyong Ban	Research on cumulative plastic deformation of the soft clay under cyclic loading - <i>Xubing Xu, Zhendong Cui, Yonglai Zheng</i>	Scenario-based Student Generated Questions for Active Learning and Authentic Assessments – Results from Implementation Across Two Modules - Mavian Xin Yi Tay, Stephen En Rong Tay
	Sustainable Engineering Cementitious Composites (ECC) with granite fine as fine filler - Ziyang Li, Bing Lu, Kang Hai Tan, Shunzhi Qlan	Hybrid Test of Viscoelastically Damped Frame Structures under Different Seismic Waves - Yao-Rong Dong, Zhao-Dong Xu, Ying-Qing Guo, Qiang- Qiang Li	On the Accurate Strain Measurement in Spilt Hopkinson Tensile Bar Tests - Cheng Chen, Xudong Qian	Investigation of the performance of a bioinspired two-fold blades wind turbine with airfoil blade sections by using Qblade - Yung Jeh Chu, Heung-Fai LAM, Hua-Yi PENG	Reflections and Results From an Interdisciplinary Module Spanning Three Disciplines for Sustainable Built Environments - Nyuk Hien Wong, Stephen En Rong Toy
	Prediction on the lubrication layer of pumped concrete based on flow induced particle migration - X.X. Xie, L.H. Zhang , X.M. Liu	Development of Oil -Damper Energy Dissipation Wall with Totally Reinforced Support Members by Using Pre-Stress "Mechanical Behavior of The Dissipation Wall Using LVL Braces" - R. Sakamoto, K. Kazuhiro , S Hanai	A New Design Guide for Fire Resistance of High-Strength Composite Beam- Columns - Shan Li, J.Y.Richard Liew	POSITIONING ACCURACY COMPARISON OF RTK RECEIVERS USED FOR DISASTER INVESTIGATION - Toru YAMANO, Kai KIRIYAMA, Osamu OKAMOTO, Kei KAWAMURA	SafeSim Design: A Digital Game-Based Learning Approach to Address Design for Safety (DfS) Competency - Sufiana Safiena, Juliana Tay, Yang Miang Goh, Michelle Lim
	Effect of Interfacial Transition Zone on Mass Transfer Properties using Low- Quality Recycled Aggregate Concrete - Nobuhiro Matsuda, T. Iyoda	Seismic Behavior of an alternative Gusset Plate Connection in a Sandwiched Buckling Restrained Brace of a Steel Two-story X_BRBF - PHAM DINH HAI	Experimental study on a novel sandwich panel under repeated impact loads - Wei Zhang, Zhenyu Huang	Corrosive Behavior of Structural Steel and Hot Dipped Galvanized Steel in the Central Part of Thailand by Atmospheric Exposure Test - Bunya Chea , Taweep Chaisomphob , Takashi Matsumoto	Identification of Critical Factors Influencing Students' Engagement and Satisfaction of Online Live Learning in Higher Education - <i>Lei Zhu, Lina Zhang, Guifeng Zhu</i>
	Carbonation resistance of Portland blast furnace slag cement type B concrete internally cured by using roof-tile waste aggregate - Yusuke Inoue, Yuko Ogawa, Kenji Kawai, Riya Catherine George	Seismic retrofit and resilience design as key sustainability strategies in earthquake regions - Weng Yuen Kam	Adaptive Fatigue Assessment of Welded Plate Joints Based on Crack Measurements - <i>Liuyang Feng, Xudong Qian</i>		Evolution of Experiential Learning Before and During the COVID-19 Pandemic - Paul Ong
	Strength Characteristics of Blast-Furnace Cement Mortar with Silicate- Type Surface Penetrants - Futagami Kei, Kondo Takuya, Yokoi Katsunori	Free and forced vibration characteristics of functionally graded sandwich beam with GPL-reinforced porous core - <i>Tran Quang Hung, Do Minh Duc, Tran Minh Tu</i>	Compressive Behaviour of Circular Concrete Axially Loaded CFDST Stub Columns - XI-Feng Yan		Online Laboratory Class for Structural Concrete Design - Hongjian Du
Time	29/6/2022				
Time			Keynote Session		
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1100-1145	meeting ID: 886 832 / 6911; password: Easec1 / "Digital-based Technology for Smart Constructions" - Dr. Sung-min CHO, South Korea government R&D project for smart constructions				
1145-1230	"Research advances on geopolymer-based ultra-high performance concrete against blasts" - Porf. Chengqing Wu, University of Technology Sydney				
	Session Co-chairs: Leong Hien POH and Justin K.W. YEOH				
1230-1330	Lunch				
1330-1530	Symposium 7A: High Performance Materials and Structures	Symposium 9: Structural Health Monitoring and Sensor Technologies for Civil Infrastructure	Symposium 11: Advanced Cementitious Composite and Applications in Protective Technology	Symposium 13: Advances in Design and Intelligent Optimization of Large Span Bridge	Symposium 12 A: Mechanics of Materials and Structures with Generalized Continua: Flexible Structures, Composite Materials, Optimizations, and Applications

	Chairs: Jiabao YAN and Yanbo WANG	Chairs: Kevin KUANG and Dan LI	Chairs: Leong Hien POH and Rui ZHONG	Chairs: Hongyou CAO and Wenming ZHANG	Chairs: Pruettha NANAKORN and Duy VO
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	Constitutive modeling of structural steels considering the influence of strain history - Yun Long Zhong, Yan Bo Wang, Guo Qiang Li	Structural Health Monitoring of Steel-concrete Composite Beams Using Acoustic Emission - Dan Li, Jia-Hao Nie, Jia-Bao Yan, Chen-Xun Hu, Peng Shen	FLEXURAL PERFORMANCE OF MILL CUT STEEL FIBER REINFORCED CONCRETE BEAM DEGRADED BY MILD CORROSION - Khanh Minh Vo, Withit Pansuk, Thi Nguyen Cao, Hai Yen Thi Nguyen	Dimensionless continuum model of vertical free vibration of spatial self- anchored suspension bridge - Jianling Zhao, Fan Wang, Xiaoming Wang, Pei Tao, Pengfei Li	Nonlinear Vibrations of Deepwater Catenary Riser Subjected to Wave Excitation - Nutwadee Lertchanchaikun, Karun Klaycham, Chainarong Athisakul, Somchai Chucheepsakul
	Experimental and Theoretical Study on the Shear Performance of Self- tapping Screw Connections of Light Steel-timber Composite Structures - Anling Zhang, Jiadi Liu, Zhihua Chen, Xiangyuan Niu	Capture of crack evolution for evaluation of concrete properties using dynamic mode decomposition - <i>Jixing CAO, Ser-Tong Quek, Yao Zhang</i>	Structures under Blast Loads from Academic Research into Engineering Applications: Advances and Limitations - <i>Tin Do, Asher Gehl</i>	Assembly Tolerance Interval Inversion Method for Cable-stayed Bridge based on Bilayer Surrogate Model - Fan Wang, Jianling Zhao,Xiaoming Wang,Pengfei Li,Pei Tao	Effects of High turbulence intensity on Dynamic Characteristics of Membrane Structure in Typhoon - <i>Dong Li, Viteng Lin, Hongwei Huang</i>
	INNOVATION OF UHPC STRUCTURES AND DESIGN METHOD IN BRIDGE STRUCTURES - Yuqing Hu,Jingquan Wang	Model Updating with Neural Network based on Component Model Synthesis - Zihan Cao, Tao Yin	Experimental investigation on compressive fatigue properties of ultra-high performance concrete containing coarse aggregate - Lijian Li, Lihua Xu, Yin Chi, Le Huang	Mechanical Model for Three-tower Self-Anchored Suspension Bridge with Central Buckle - Shuang Liu, Hongyou Cao, Zhijun Chen, Changyu Shao	Effects of Discretization Schemes on Free Vibration Analysis of Planar Beam Structures Using Isogeometric Timoshenko-Ehrenfest Beam Formulations - Duc Van Nguyen, Duy Vo, Pruettha Nanakorn
	Behavior of circular ultra-high strength concrete-filled steel tube columns under unequal end moments - Siqi Lin, Yan-Gang Zhao	Crack assessment of beam using machine learning with augmented sensing - Jin Ho Hwang, Hyun Woo Park	Punching Shear Test on Flat Slabs Strengthened by Angle Plates - Hussein Riyadh Taresh, Mohd Yazmil Md Yatim, Mohd Reza Azmi	Study on time synchronization method for creating a cable surface image of Cable-Stayed bridge using image processing - Z.Wei, K. Kawamura, T.Nakamura, M.Shiozaki	Geometrically Nonlinear Behavior of L-shaped Frames Under Forces Applied at Different Positions - Nghi Huu Duong, Duy Vo, Pruettha Nanakorn
	Research on the mechanism of FRP-confined concrete-filled steel tube column using high-strength materials - Yansheng Du, Yutong Zhang, Dinghui Gao, Mingxuan Fu, Zhihua Chen	Evaluation of the Application of Unmanned Aerial Vehicle Technology on Damage Inspection of Reinforced Concrete Buildings - <i>Jiehui Wang, Tamon Ueda</i>	Strain-hardening fiber reinforced cementitious composites with modified basalt fibers - Zhiming Pang, Cong Lu, Jianxun Liu	Analysis of Vehicle-Bridge Interaction Concerning Non-uniform Effect of Bridges - <i>Judy Yang</i>	- W. Wongviboonsin, P.A. Gourgiotis, J. Rungamornrat Interfacial Displacement Discontinuity in Coated Substrate with Couple-Stress Effects
	Experimental Investigation of Circular Reinforced Concrete Columns Exposed to Elevated Temperatures - Jia Xu, Riyad Aboutaha	Predicting the modal frequencies of a cracked beam considering crack modes $ \mathbf{I} $ and $ \mathbf{\Pi} $ - $$ $$ $$ $$ $$ $$ $$ $$ $$ $$	Punching shear performance of steel-UHPC-steel slabs considering composite action - Z. Wang, J. Yan, Y. Lin, F. Fan	Dynamic Modal Parameters of an Extremely Lightweight Structure using a Gyroid Core for Bridge Bearings - <i>Pasakorn Sengsri, S. Kaewunruen</i>	Mechanical properties of lattice specimens having a triangular pattern with different relative densities - iltthidet Thawon,Pana Suttakul, Thongchai Fongsamootr, Yuttana Mona
	Mechanical model for parallel-to-grain withdrawal failure of self-tapping screw in glulam - Lijing Fang, Wenjun Qu, Shengdong Zhang	Deep learning-based Crack Detection and Classification for Concrete Structures Inspection - Cuong Nguyen kim, Kei Kawamura, Hideaki NaKamura		Exploring patterns in municipal bridge management issues and their relationship with municipal conditions in Hokkaido, Japan - <i>Michael Henry</i>	Analytical Solution for Circular Microbeams with Strain Gradient Elasticity IZwe Yan Aung, Duy Vo, Toan Minh Le, Jaroon Rungamornrat
1530-1545			Break		
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1545-1630	"Carbon Saving in Circular Building Materials" - Prof. Caijun Shi, Hunan University				
			Session Chair: Hongjian DU		
1630-1645			Break		
1645-1845	Symposium 7B: High Performance Materials and Structures	Symposium 16: Advances in Vibration Mitigation of Long-Span Bridges and High-Rise Structures	Symposium 15: Practice of Sustainable Urban Development	Symposium 8: Prefabricated Construction and Composite Structures	Parallel session E: Structural Integrity Assessment
	Chairs: Yonghui WANG and Mingxiang XIONG	Chairs: Lin CHEN and Yongkui WEN	Chairs: Kian Hau KONG and Paul Pang Awn ONG	Chairs: Zhenyu HUANG and Chao HOU	Chairs: Xianjun PEI and Tak-Ming Chan
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details	meeting ID: 884 1380 7610 password: Easec17	meeting ID: 886 7890 0196 password: Easec17	meeting ID: 873 5201 2480 password: Easec17	meeting ID: 882 2670 1942 password: Easec17	meeting ID: 846 5779 9662 password: Easec17
	Behaviors of steel-concrete composite structures at cold-region low temperatures - <i>Jia-Bao Yan, Jian Xie</i>	Damping effects of cable dampers on girder vibrations in cable-stayed bridges - <i>P. Sae-ma, L. Sun, L. Chen, Z. Liu</i>	Influence Mechanism of Farmers' Sense of Gain in Tourism-oriented Rural Infrastructure Construction and Operation - Hongtoo Jia, Lei Zhu, Jing Du	Numerical study on out-of-plane mechanical behavior of new type precast shear wall with unspliced vertical distribution bars - <i>Qiang Fu, Zhiwei Cao, Heng Dong</i>	Data Driven Madelina of Multipuial Catigue in Everyone, Demain
	Development of Novel Sigma-shaped Self-locking Inter-modular Joints for Robust Modular Steel Buildings - Kashan Khan, Zhihua Chen, Xingwang Liu, Jia-Bao Yan, Jiadi Liu	Double-track Nonlinear Energy Sink for Dynamic Response Control in Wind Turbine Tower - Dong Li, Zheng Yu Zhang, Xuhui Zhang	Understanding Sustainability Practices through Sustainability Reports and Its Impact on Organizational Financial Performance - Mavian Xin Yi Tay, Stephen En Rong Tay	Lightweight and Advance Precast Concrete System for Modular Building Construction - Junxuan WANG, Kian Hau Kong, Richard Jat Yuen Liew	A Study on Estimation Method of Curing Influence Area for Prediction of Remaining Life on Real Concrete Structures - Takeshi Iyoda, Aki Sugiyama, Masashi Miyawaki
	Shear performance of interface between normal concrete and ultra-high performance concrete in cryogenic circumstance - Yujie Chen, Jian Xie, Ercong Kang	Multi-Stage Objective Algorithm for Accelerating the Structural Optimization of Tall Building Structure - Xin Zhao, Gang Wang, Jie Yao	EARTHQUAKES, REINFORCED CONCRETE STRUCTURES, AND CIRCULAR ECONOMY: A SYSTEMATIC REVIEW OF STUDIES - Teklewoin Haile Fitwi	Study of initial imperfection of concrete-filled square steel tube columns for direct analysis - Zijuan ZHANG, Jiale XING, Yao-Peng LIU, Guochang LI	Ballastless track support deterioration evaluation using machine learning - Jessada Sresakoolchai, Ting Li, Sakdirat Kaewunruen

	Effects of Arctic Low Temperatures and Freeze-thaw Cycles on Mechanical Properties of Ultra-high Performance Concret - Ercong Kang, Jian Xie, Jiabao Yan, Jing Tang	Stochastic Optimization of Multiple Tuned Inerter Dampers for Mitigating Seismic Responses of Bridges Isolated with Friction Pendulum Systems - Yongkui Wen, Bo Hui	Design Method on Flexural Behaviour of Singly-Reinforced PVA-ECC Beams - Dan-Dan Wang, Shao-Bo Kang, Xiao-Fan Yu, Kun Liu, Xun-Tian Tan	Nonlinear coupled thermal-structural analysis of monolithic and precast concrete corbel beam-to-column connection - Noor Azim Mohd. Radzi, Shanmugam Muniandy, Fadlin Sakina Ismasofie, Roszilah Hamid	Damage Statistics and Integrity Assessment of Brick Masonry Structures in Historic Buildings - Haiyang Qin, Yongjing Tang, Jiao He, Zhiwang Gu
	Compressive Behavior of High Strength Steel Wire-Mesh Reinforced Concrete Filled Steel Tubular Columns - Fangyuan Gao, Mingxiang Xiong, Fengming Ren	Optimization of Damped Outriggers for Maximizing Multimode Damping of Long-span Bridges for Vibration Suppression - Zhanhang Liu, Lin Chen, Limin Sun	Numerical Analysis of Precast RC Composite Wall under Concentric Axial Loading for Concrete PPVC Building - S.S. Yee,K.H. Kong,R.J.Y Liew	Mechanical Performance of Novel UHPFRC Grouted SHS Tube-Sleeve Connection: Experiments, Numerical Simulation and Analytical Approaches - Zhenyu HUANG, Weixiong DENG	Investigation on buckling and low-cycle fatigue performance of high- strength steel bars HTRB600 - <i>Dianqi Wu, Yang Ding, Junsheng Su, Zhong-</i> <i>Xian Li</i>
	Axial compression behaviours of concrete-filled square GFRP tube stub columns at arctic low temperatures - wang zhe	Optimal Design of Energy-dissipated Substructure with Viscous Damper for High-rise Building - <i>Daohang Hu,Xin Zhao</i>	Patterns in the Social Perspectives of Concrete Industry Stakeholders and Their Impact on the Sustainability Evaluation of Concrete - <i>Ludmila Soares</i> <i>Carneiro, Michael Henry</i>	Effects of gap arrangement on the compression behavior of square tubed steel reinforced-concrete columns - <i>Biao Yan, Quanlin Zhou, Dan Gan</i>	Experimental and Numerical Studies on the Behaviour of Interior Slab- Column Joints Subjected to Eccentric Loading - Mengzhu Diao, Hong Guan, Huizhong Xue, Yi Li, Xinzheng Lu
	Shrinkage and crack characteristics of filling materials under restrain stress in prefabricated structure connection - <i>Dongkyu Lim, Myoungsung Choi,</i> <i>Youngjin Kim</i>	Design and optimization of viscous damping outrigger vibration reduction for ultra-high structures - <i>Jie Yoo,Xin Zhao</i>	Research on the Industry Acceptance and Promotion Path of Interim Payment in Civil Engineering Projects - Lei Zhu, Hui Xiong	A Modified Beam-to-Column Connection for Steel Modular Structures with Enhanced Repairability - <i>Jiajia Xu, Xudong Qian, Chengguang Xu, Ran Tao</i>	A fundamental study on pull-out behaviour of masonry column structures strengthened with bonded anchor - Daisuke Sasaki, Zice Qin, Hitoshi Moriyama, Masahide Matsumura, Kaname Iwatsubo, Toshitaka Yamao
Time			30/6/2022		
			Keynote Session		
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1100-1145		"Coupling models for	fluid-seabed interactions around marine structures" - Prof. Dong-Sheng JE	NG, Griffith University	
1145-1230		"Effective use of high strength S690 steel in constru	ction and effects on their mechanical properties after welding" - Prof. Kwo	k-Fai CHUNG, The Hong Kong Polytechnic University	
			Session Co-chairs: Xudong QIAN and Guoqing GENG		
1230-1330			Lunch		
1330-1530	Parallel session D: Progressive Collapse and Ultimate Structural Resistance	Symposium 10: Bayesian System Identification of Civil Engineering Structures: Development and Application	Symposium 17: Intelligent Shield Tunnelling	Parallel session F: Engineering Design and Dynamics Structural Response	Symposium 12 B: Mechanics of Materials and Structures with Generalized Continua: Flexible Structures, Composite Materials, Optimizations, and Applications
	Chairs: Kang Hai TAN and Gang SHI	Chairs: Hua-Yi PENG and Heung Fai LAM	Chairs: Jian CHEN and Darren Siau Chen CHIAN	Chairs: Pearl Yuzhu Ll and Gary Jiarui LEI	Chairs: Pruettha NANAKORN and Duy VO
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	https://nus- sg.zoom.us/j/88413807610?pwd=NWNyZTNuUDVzeENnWmlEcjl4NGw3U T09 meeting ID: 884 1380 7610 password: Easec17 Full-scale Experimental Test on 3D Composite Floor Substructures under	https://nus- sg.zoom.us/i/886789001967pwd=Und1WUxFdVZXdWZGdHFZX1B0L2dWZ z09 meeting ID: 88678900196 password: Easec17 A robust Bayesian sensor placement scheme with enhanced sparsity and useful information for structural health monitoring - Mujib Olamide	https://nus- sg.zoom.us/i/87352012480?pwd=UXpPTFVIYmQya29uaFpMRWR3MzJuQT 09 meeting ID: 873 5201 2480 password: Easect17 A Preliminary Review of Digital and Intelligent Cutterhead Management and the Enabling Technologies in Shield Tunnelling - Ziwei Yin, Gong Li,	https://nus- sg.zoom.us/J/88226701942?pwd=ZZZ3ROxINOFFMisOMHJPYlcwdThuQTO9 meeting ID: 882 2670 1942 password: Easec17 Studies on the relationship between anchor force of prestressed anchor	https://nus- sg.zoom.us/i/846577996627pwd=VU5UYjZUNFdmMlJxNm05ZkFQamhEUT 09 meeting ID: 846 5779 9662 password: Easect17 Free Vibration Analysis of Toroidal Shell Segments with Novel Four- Unknown Refined Theory - Van-Loi Nguyen, Suchart Limkatanyu, Jaroon
	https://nus- sg.zoom.us/i/88413807610?pwd=NWNyZTNuUDVzeENnWmlEcil4NGw3U T09 meeting ID: 884 1380 7610 password: Easec17 Full-scale Experimental Test on 3D Composite Floor Substructures under External Column Removal Scenarios - Luming Ren, Hao Huang, Bo Yang Numerical Investigation on Progressive Collapse Resistance of Mountainous Step-Terrace Frame Structures - Shan Wang, Shao Bo Kang, Liang Tan Numerical investigation on collapse-resistant performance of unbonded prestressed RC beam-column sub-assemblages - Licheng Wang, Wenliu Xu, Hongjie Vin	https://nus- sg.zoom.us/i/886789001967pwd=Und1WUxFdVZXdWZGdHFZK1B0L2dWZ z09 meeting ID: 886 7890 0196 password: Easec17 A robust Bayesian sensor placement scheme with enhanced sparsity and useful information for structural health monitoring - Mujib Olamide Adeagbo, Heung-Fai Lam Improved Vehicle Scanning Method for Bridge Damage Detection - D.S.	https://nus- sk.zoom.us/i/873520124807pwd=UXpPTFVIYmQya29uaFpMRWR3MzJuQT 09 meeting ID: 873 5201 2480 password: Easec17 A Preliminary Review of Digital and Intelligent Cutterhead Management and the Enabling Technologies in Shield Tunnelling - Ziwei Yin, Gang Li, Hanbin Luo, Zhengjun You Data-driven safety assessment for shield tunnel excavation: Interoperability between parametric modeling and numerical simulation -	https://nus- sg.zoom.us/i/88226701942?pwd=22Z3R0xIN0FFMis0MHJPYlcwdThuQT09 meeting ID: 882 2670 1942 password: Easec17 Studies on the relationship between anchor force of prestressed anchor cable and nonlinear vibration of anchor head - Hao Li, Hui Cao Plate Thickness Distribution Estimation of a Belt Conveyor Support Structure Member Based on Cross-Sectional Vibration Modes Using Machine Learning - Daichi Ogawa, Yaohua Yang, Tomonori Nagayama, Sou Kato, Kazumasa Hisazumi, Tomonori TominagaDaichi Ogawa, Yaohua Yang, Tomonori Nagayama, Sou Kato, Kazumasa Hisazumi, Tomonori	https://nus- sg.zoom.us/i/84657799662?pwd=VUSUYjZUNFdmMlJxNm05ZkFQamhEUT 09 meeting ID: 846 5779 9662 password: Easec17 Free Vibration Analysis of Toroidal Shell Segments with Novel Four- Unknown Refined Theory - Van-Loi Nguyen, Suchart Limkatanyu, Jaroon Rungamornrat Linear analysis of planar curved bi-directional functionally graded microbeams using the modified couple stress theory - Duy Vo, Pana
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details	https://nus- sg.zoom.us/i/88413807610?pwd=NWNyZTNuUDVzeENnWmlEcil4NGw3U T09 meeting ID: 884 1380 7610 password: Easec17 Full-scale Experimental Test on 3D Composite Floor Substructures under External Column Removal Scenarios - Luming Ren, Hao Huang, Bo Yang Numerical Investigation on Progressive Collapse Resistance of Mountainous Step-Terrace Frame Structures - Shan Wang, Shao Bo Kang, Liang Tan Numerical investigation on collapse-resistant performance of unbonded prestressed RC beam-column sub-assemblages - Licheng Wang, Wenliu Xu, Hongjie Yin Enhancing anti-collapse capacity of steel frame with welded connection based on energy dissipation cover-plates - Boo Meng, Du Qiangqiang, Weihui Zhong Numerical Study of Prestressed Concrete Girder-Deck System with Variable Reinforcement and Span-depth Ratios - Haoran Ni, R.S. Aboutaha Effects of modeling methods of RC diaphragm on the behavior of steel staggered truss framing structures - Zeviang Li, Dan Gan, Xuhong Zhou FINITE ELEMENT ANALYSIS OF BONDED POST-TENSIONED SLAB-COLUMN CONNECTION WITH SHEAR STUD UNDER LATERAL LOAD - K.	https://nus- sg.zoom.us/i/88678900196?pwd=Und1WUxFdVZxdWZGdHFZK180L2dWZ z09 meeting ID: 886 7890 0196 password: Easec17 A robust Bayesian sensor placement scheme with enhanced sparsity and useful information for structural health monitoring - Mujib Olamide Adeagbo, Heung-Fai Lam Improved Vehicle Scanning Method for Bridge Damage Detection - D.S. Yang, C.M. Wang, W.H. Duan Bayesian structural model updating of a large-span cable-stayed bridge through MCMC-based approach and vibration data - C. Fang, H.J. Liu, H.F. Lom, M.O. Adeagbo, H.Y. Peng Multi-view Target-free Video Structural Motion Estimation: a Self-adaptive Co-calibration Model - Yi Zhang, Enjian Cai Application of Bayesian Optimization and Genetic Algorithm to Improve Seismic Performance of RC Frame with Setbacks using BRBs - Taufiq Ilham Maulana, Zheng Gao, Taiki Soito Inverse Identification of Cyclic Constitutive Law of Structural Steels using Multi-objective Bayesian Optimization - Bach Do, Mokoto Ohsoki Void detection of CA mortar layer of the slab track structure utilizing MCMC-based method -	https://nus- sg.zoom.us/i/87352012480?pwd=UXpPTFVIYmQya29uaFpMRWR3MzJuQTT 09 meeting ID: 873 52012480 password: Easec17 A Preliminary Review of Digital and Intelligent Cutterhead Management and the Enabling Technologies in Shield Tunnelling - Ziwei Yin, Gang Li, Hanbin Luo, Zhengjun You Data-driven safety assessment for shield tunnel excavation: Interoperability between parametric modeling and numerical simulation - Ping Xie, Gang Li, Hanbin Luo, Xiao Yang A Dynamic Model of Machine Learning and Deep Learning in Shield Tunneling Parameters Prediction - Ruohan Wang, Guan Chen, Yong Liu Development of a Digital Shield Cutterhead Management System - Ziwei Yin, Hanbin Luo Research Progress and Technical Trend of Self-driving Shield - MinHu, Binglian Wu, Jing Lu Hybrid model for predicting average cutter wear in TBM excavation - A. Li,G. Li,C. Wang,WL. Liu Optimal control of operation parameters during EPB shield tunnelling based on artificial neural network model - Xuejian Chen, Qing Kang, Yong Liu	https://nus- sg.zoom.us/l/88226701942?pwd=ZZZ3ROxINOFFMisOMHJPYlcwdThuQTO9 meeting ID: 882 2670 1942 password: Easec17 Studies on the relationship between anchor force of prestressed anchor cable and nonlinear vibration of anchor head - Hao Li, Hui Cao Plate Thickness Distribution Estimation of a Belt Conveyor Support Structure Member Based on Cross-Sectional Vibration Modes Using Machine Learning - Daichi Ogawa, Yaohua Yang, Tomonori Nagayama, Sou Kato, Kazumasa Hisazumi, Tomonori TominagaDaichi Ogawa, Yaohua Yang, Tomonori Nagayama, Sou Kato, Kazumasa Hisazumi, Tomonori Tominaga Design for local buckling behaviour of welded high strength steel I- sections under bending - S.X.Chen,H.Fang,J.Z.Liu, T.M.Chan Clustering Analysis in Determination of Equivalent Static Wind Load - Ming-Hui Huang, Yuan-Lung Lo Simulation and simplified method study on seismic collapse of core- outrigger structures - Yue Liu, Jie Huang, Feljei Sun, Guanyuan Chen FEM Aspects of RC Buildings Modeling and Design - Viktor Hristovski,Emil Jankulovski Bursting effects in prestressed concrete sleepers at different prestressed	https://nus- sg.zoom.us/i/84657799662?pwd=VU5UYjZUNFdmMlJxNm05ZkFQamhEUT 09 meeting ID: 846 5779 9662 password: Easec17 Free Vibration Analysis of Toroidal Shell Segments with Novel Four- Unknown Refined Theory - Van-Loi Nguyen, Suchart Limkatanyu, Jaroon Rungamornrat Linear analysis of planar curved bi-directional functionally graded microbeams using the modified couple stress theory - Duy Vo, Pana Suttakul, Jaroon Rungamornrat, Pruettha Nanakorn Data-driven Multi-scale Simulations of Nonlinear Elastic Heterogeneous Materials - Zhongbo Yuan,POH Leong Hien Finite element model updating based on neural network ensemble - Yuxuan He, Tao Yin Numerical simulation for parallel-to-grain withdrawal failure of self- tapping screws in glulam - Lijing Fang, Wenjun Qu, Shengdong Zhang Steel Braces Optimization Design of Steel Tall Building Based on Sensitivity Analysis of Wind Vibration Stiffness Performance - Yuzhou Hou, Xin Zhao Sensitivity Data Driven Composite Floor Structural Optimization for Tall
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1545-1630	Awardee Presentation: EASEC-17 Best Young Researcher's Paper Award	
1343-1030	Session Chair: Leong Hien POH	
1630 1645	Closing Ceremony	
1630-1645	Master of Ceremony: Guoqing GENG	