



Session: Structure Engineering 1 (STR-1)		
November 23,2023 (13:00-14:45) Room: Prego Event 2		
Session Chair: Prof. Tomomi Yagi (KU)		
Session Co-Chair: Assoc.Prof. Pitcha Jongvivatsakul (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_087	Development of Delay Compensation Methodology Using Prior Information on Specimens in Real-Time Hybrid Simulation	Mr. Yuto Miyoshi (KU)
KKHTCNN_2023_090	Effect of Changes in Bearing Properties Due to Temperature Variations on Bayesian Anomaly Detection in Model Bridge Experiments	Mr. Yuki Hirate (KU)
KKHTCNN_2023_097	Hardware Accelerated Nonlinear FEA with Data-driven Material Model for Faster and Accurate Structural Analysis	Mr. Hyunseung Chung (KAIST)
KKHTCNN_2023_098	Finite Element Analysis based on the Nonlinear Elastic Orthotropic Material Model for Reinforced Concrete Slab	Ms. Seoyoung Moon (KAIST)
KKHTCNN_2023_014	A Nonlinear Finite Element Analysis on Flexural Behaviour of FRP-Concrete Hybrid Beams with Bolt Shear Connectors	Mr. Dawei Yan (TU)
KKHTCNN_2023_117	Numerical and theoretical analysis of shear force distribution in joint between concrete top slab and corrugated steel web	Mr. Haochu Cai (TU)
KKHTCNN_2023_026	Predicting Punching Shear Strength of Fiberglass Reinforced Polymer Concrete by Machine Learning	Mr. Settawuth Rattanaudom (CU)
KKHTCNN_2023_032	Simplified modelling for seismic response analysis of buildings with viscous dampers	Mr. Passakorn Kamolamnuaykit (NTU)



Session: Structure Engineering 2 (STR-2)		
November 23,2023 (13:00-14:45) Room: Meeting Room 1		
Session Chair: Prof. Chul-Woo Kim (KU)		
Session Co-Chair: Assoc.Prof. Haoqi Wang (TU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_091	Probabilistic Cable Condition Assessment and Reliability Analysis in Long-term Ambient Vibration Monitoring of a Cable-stayed Bridge	Mr. Zhihao Wang (KU)
KKHTCNN_2023_092	Numerical Study on Damage Detection of Simply Supported Girder Bridges Using Rotational and Longitudinal Ends-of-span Displacement Responses	Mr. Phyo Wae Hein (KU)
KKHTCNN_2023_103	Development of a Parametric Reduced-Order Model for Seismic Analysis Considering System Parameter Variations	Mr. Chanwoo Lee (KAIST)
KKHTCNN_2023_106	Numerical Analysis of a Reinforced Concrete Slab Subjected to Blast Loading	Mr. Dawon Park (KAIST)
KKHTCNN_2023_107	Peridynamic Heat Conduction Simulation Using Peridynamic Differential Operators with Parameter Optimization	Mr. Sunwoo Kim (KAIST)
KKHTCNN_2023_017	Peridynamics modelling of concrete failure under impact loadings	Mr. Xiaohu Yu (TU)
KKHTCNN_2023_121	Modeling the Shear Behavior of ETS-FRP-Strengthened RC Beams with Flexural–Shear Deformation Theory	Dr. Linh Van Hong Bui (CU)
KKHTCNN_2023_130	Theoretical, Numerical, and Experimental Analysis and Design of Tube-Type Resonator Seismic Metamaterials	Mr. Nathan Wenzel (NTU)



Session: Structure Engineering 3 (STR-3)		
November 23,2023 (15:00-17:00) Room: Prego Event 2		
Session Chair: Prof. Hyo-Gyoung Kwak (KAIST)		
Session Co-Chair: Prof. Kunitomo Sugiura (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_095	FE Analysis of Natural Frequency of a Flat Plate Constrained by Circular Area	Mr. Iksong Kim (KU)
KKHTCNN_2023_108	Blast Simulation of a Reinforced Concrete Beam Using the Arbitrary Lagrangian-Eulerian Method	Mr. Tae Hee Lee (KAIST)
KKHTCNN_2023_110	Debris Flow Impact Simulation on a Transmission Tower Using the Smoothed Particle Hydrodynamics (SPH) Method	Mr. Woo-Min Jang (KAIST)
KKHTCNN_2023_111	Development of a High-fidelity Nozzle Thrust Analysis Model	Mr. Dong-Hun Han (KAIST)
KKHTCNN_2023_118	Numerical and Experimental Investigation of the Seismic Effect of a Two-Stage Seismic Isolation Method	Mr. Jianyu Guan (TU)
KKHTCNN_2023_019	Multi-performance-target seismic design for inerter-based nonlinear structures	Ms. Minjun Wu (TU)
KKHTCNN_2023_020	Performance Analysis of Nuclear Containment Under Inner Pressure Load	Ms. Qiaoqiao Fan (TU)
KKHTCNN_2023_022	Comprehensive Looseness Detection for Rail Fasteners using Percussion Sound and Deep Regression Model	Mr. Shuyin Wang (TU)
KKHTCNN_2023_122	Modeling the Shear Behavior of ETS-FRP-Strengthened RC Beams with Two-Parameter Kinematic Theory	Dr. Linh Van Hong Bui (CU)
KKHTCNN_2023_027	Analysis of Penny-shaped Crack in 1D Quasicrystals by Boundary Integral Equation Method	Mr. Tien Hoang Pham (CU)



Session: Structure Engineering 4 (STR-4)		
November 24,2023 (8:30-10:15) Room: Ballroom 1		
Session Chair: Prof. Hyung-Jo Jung (KAIST)		
Session Co-Chair: Prof. Yasuo Kitane (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_001	Evaluation of Amplitude of Rectangular Cylinder with a Side Ratio of 2 Based on Aerodynamic Force Considering Relative Angular Velocity of Attack	Mr. Riki Katayama (KU)
KKHTCNN_2023_002	Relationship between Changes in Vortex Shedding Characteristics and Aerodynamic Instability due to Different Corner Shapes of Rectangular Cylinder	Mr. Kaisei Shimobe (KU)
KKHTCNN_2023_004	Effect of Placing Surface Spiral Protuberances on the Drag Crisis in a Circular Cylinder	Mr. Omar Mohsen Mohamed Hussein Marey (KU)
KKHTCNN_2023_084	Evaluation of Concrete-Filled Retrofitting and Crack propagation for Hollow RC Columns Using XFEM	Mr. Zen Kasahara (KU)
KKHTCNN_2023_102	Evaluation Method for the Shape Stability of the Printing Type Concrete Structure with Matric Suction Value	Mr. Kwang Min Park (KAIST)
KKHTCNN_2023_010	Rapid Assessment for Seismic Damage Risk of Substation Equipment in Regional Power Grid	Mr. Jun Lu (TU)
KKHTCNN_2023_021	Analytical investigation of the vertical quasi-zero stiffness isolation system	Mr. Decheng Lu (TU)
KKHTCNN_2023_028	Assessment of Macro Models of Masonry Infilled RC Frames with Opening	Ms. Sreyneth Lath (CU)



Session: Structure Engineering 5 (STR-5)		
November 24,2023 (8:30-10:15) Room: Meeting Room 1		
Session Chair: Assoc.Prof. Haoqi Wang (TU)		
Session Co-Chair: Asst.Prof. Kyohei Noguchi (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_086	Fundamental Study on Bonding Properties of Geopolymer Concrete with Sodium Metasilicate Nonahydrate to Reinforcing Steel Bars	Mr. Hiromichi Shinohara (KU)
KKHTCNN_2023_099	Controlling Yield Stress of Fresh Cement-Based Material by Vibration	Dr. Tae Yong Shin (KAIST)
KKHTCNN_2023_101	Adjusting Operational Protocol for Precast Concrete Module Printing KKHTCNN Symposium on Civil Engineering	Mr. Seung Mo Kim (KAIST)
KKHTCNN_2023_011	Effect of humidity on the dynamic properties of ionomer interlayers for laminated glass	Ms. Yujia Lu (TU)
KKHTCNN_2023_018	Development of a Self-Centering Viscous Damper	Mr. Qiang Liu (TU)
KKHTCNN_2023_123	Effects of Biopolymer Matrix on Mechanical Properties of Natural Fiber Reinforced Polymer Composites	Mr. Varuj Limwibul (CU)
KKHTCNN_2023_129	Developments of Auxetic Pile-Type Metamaterials for Relieving Seismic Impact on Structures	Mr. Hsiang-Hao Hsieh (NTU)
KKHTCNN_2023_136	Fully coupled thermo-mechanical state-based peridynamics for thermal cracking	Mr. Changyi Yang (HKUST)



Session: Structure Engineering 6 (STR-6)		
November 24,2023 (10:30-12:15) Room: Ballroom 1		
Session Chair: Assoc.Prof. Xu Chen (TU)		
Session Co-Chair: Asst.Prof. Keita Uemura (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_088	Acceleration-based Structural Rotation and Deformation Estimation of Beams in Data-driven Models	Mr. Hanliang Yu (KU)
KKHTCNN_2023_089	Concatenation Bridge Weigh-in-Motion using Multiple Sensor Information	Mr. Ryoya Sugimoto (KU)
KKHTCNN_2023_100	Effect of Activator Concentration on Chloride Resistance and Reaction Products of ITZ in Alkali-Activated Slag	Mr. Tae Hoon Han (KAIST)
KKHTCNN_2023_008	Investigation on the Propagation of Uncertainties of a Timber Floor under Human Excitation	Assoc.Prof. Haoqi Wang (TU)
KKHTCNN_2023_015	Experiment and Analysis of Static Behavior of Corrugated Web Steel Girders	Mr. Guoji Zuo (TU)
KKHTCNN_2023_016	Spatial Distribution and Prediction of Blast Loads in Urban Blocks	Mr. Doudou Si (TU)
KKHTCNN_2023_126	Flooding Influence on Ballasted Track Dynamic Properties	Mr. Ratabhat Wangtawesap (CU)
KKHTCNN_2023_030	Strain Field of Reinforced Concrete Wall Subjected to Shear Failure	Mr. Pu-Wen Weng (NTU)



Session: Structure Engineering 7 (STR-7)		
November 24,2023 (10:30-12:15) Room: Meeting Room 1		
Session Chair: Prof. Anat Ruangrassamee (CU)		
Session Co-Chair: Asst.Prof. Hao Wu (TU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_105	Effect of Mainshock-Aftershock Sequences on Seismic Fragility Curve of Buried Gas Pipeline	Mr. Woongchan Bang (KAIST)
KKHTCNN_2023_009	Surrogate model-aided global sensitivity analysis of seismic consequence estimation in buildings	Mr. Jiajun Du (TU)
KKHTCNN_2023_012	Seismic Response and Isolation Design of Series Compensation Platform Supported by Diagonal Strut Insulators	Mr. Gaoyang Shi (TU)
KKHTCNN_2023_013	Dynamic-Reliability-Based Design Optimization Based on Quantum-Inspired Optimization Algorithm and Probability Density Evolution Method Combined with Change of Probability Measure	Ms. Lili Weng (TU)
KKHTCNN_2023_120	Seismic Strengthening of Reinforced Concrete Columns with Steel Collars and External Longitudinal Bars	Prof. Anat Ruangrassamee (CU)
KKHTCNN_2023_033	Damage Classification of Post-Earthquake Buildings with Computer Vision and Deep Learning	Mr. Ruei-Bin Chiou (NTU)
KKHTCNN_2023_034	Preliminary Study of Seismic Isolation Bearings with Variable Inerters for Protection of Essential Equipment and Components	Mr. Wei-Kai Chen (NTU)
KKHTCNN_2023_131	Seismic Loss and Risk Assessment of Steel Moment Frames in Taipei Basin	Mr. Chi-Jen Chen (NTU)



Session: Structure Engineering 8 (STR-8)		
November 24,2023 (13:15-15:00) Room: Ballroom 1		
Session Chair: Assoc.Prof. Withit Pansuk (CU)		
Session Co-Chair: Asst.Prof. Yoshinao Goi (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_093	Effect of Temperature Change on the Frequency of Steel Warren Truss Bridge	Ms. Marino Kato (KU)
KKHTCNN_2023_104	An investigation of impact load identification using deep neural networks for submerged floating tunnel under collision	Mr. SeungMin Baek (KAIST)
KKHTCNN_2023_119	A General Tuples Recognition Framework towards deep learning-driven structural health monitoring adapted to diverse supervision paradigms	Mr. Qingsong Xiong (TU)
KKHTCNN_2023_125	Design of Cellular Steel Beam-Columns using AISC Direct Analysis Method	Mr. Voraphol Horsangchai (CU)
KKHTCNN_2023_128	Design analysis of the application of high-strength strain-hardening steel fiber reinforced concrete to the connection of steel braces in New RC frame	Ms. Ying Chieh Wang (NTU)
KKHTCNN_2023_031	Machine learning applications in building damage detection under seismic excitation	Ms. ChiehYu Liu (NTU)
KKHTCNN_2023_134	Towards Robotic Inspection of Crack Segmentation with Deep Reinforcement Learning	Mr. Chun Hao Fan (NTU)
KKHTCNN_2023_135	A Novel Deep Learning-based Framework for Surface Crack Segmentation and Quantification	Mr. Yi Chang Chen (NTU)



Session: Structure Engineering 9 (STR-9)		
November 24,2023 (13:15-15:00) Room: Meeting Room 2		
Session Chair: Asst.Prof. Rih-Teng Wu (NTU)		
Session Co-Chair: Asst.Prof. Risa Matsumoto (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_003	Study on Modeling of Handrails with Porous Media to Evaluate Torsional Flutter	Mr. Yuki Yamakawa (KU)
KKHTCNN_2023_096	Numerical analysis on bleeding and evaporation to prevent plastic shrinkage cracking	Ms. HyunKyoung Kim (KAIST)
KKHTCNN_2023_115	Repair procedure-based recovery pattern for estimating seismic resilience and concept of public resilience	Assoc.Prof. Xu Chen (TU)
KKHTCNN_2023_116	Seismic performance of low-damage self-centering concrete wall structures considering non-structural infill walls	Asst.Prof. Hao Wu (TU)
KKHTCNN_2023_025	Surrogate-Assisted Model Methods for Maximum Compression Capacity Predictions of Concrete-Filled Stainless-Steel Tubular Columns	Mr. Ly Ith (CU)
KKHTCNN_2023_132	Seismic Fragility of Circular Steel Bridge Piers	Ms. Wen-Yu Xiao (NTU)
KKHTCNN_2023_133	Seismic Performance of Square HSS Columns	Ms. Yu-Wen Teng (NTU)
KKHTCNN_2023_137	Biomechanical analysis for masonry workers based on musculoskeletal modeling	Ms. Rao FU (HKUST)



The 34th KKHTCNN Symposium on Civil Engineering
23 – 25 November 2023 Pattaya, Thailand
Session Program [updated 18 Nov 2023]

Session: Structure Engineering 10 (STR-10)		
November 24,2023 (15:15-16:30) Room: Ballroom 1		
Session Chair: Asst.Prof. Tung-Yu Wu (NTU)		
Session Co-Chair: Assoc.Prof. Pitcha Jongvivatsakul (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_085	Experimental Evaluation on Concrete-Filled Retrofitting Using Large-Scale RC Pier Specimens with Hollow Section	Mr. Kota Kadotani (KU)
KKHTCNN_2023_006	Strain measurement of steel structures by using engraved targets based on digital image correlation method	Mr. Kosuke Shimizu (KU)
KKHTCNN_2023_007	Experimental Study on Fog Adhesion Using H-shaped Steel	Ms. Rika Yonezawa (KU)
KKHTCNN_2023_109	Investigation of the Free-air Blast Effects by Moving Cylindrical Charges	Ms. Yena Lee (KAIST)
KKHTCNN_2023_024	Study on multilayer magnetic field rotating eddy current inertial damper	Ms. Wanqiu Xia (TU)
KKHTCNN_2023_127	Buckling Temperature Analysis of Curved Ballasted Railway Tracks	Ms. Pimsuda Chuadchim (CU)



Session: Structure Engineering 11 (STR-11)		
November 24,2023 (15:15-17:00) Room: Meeting Room 2		
Session Chair: Dr. Justin Yeoh (NUS)		
Session Co-Chair: Asst.Prof. Chayut Ngamkhanong (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_005	Study on Temperature Dependent Viscoelastic Properties of Epoxy Asphalt	Ms. Miyu Nakamura (KU)
KKHTCNN_2023_094	Evaluation of Fatigue Load Models for Bridges under Traffic Conditions in Uganda	Ms. Charlotte Natukwasa Nabasa (KU)
KKHTCNN_2023_112	An overview of carbonation curing of Portland cement-metakaolin-limestone ternary binders	Ms. Alam Cho (KAIST)
KKHTCNN_2023_113	Reviews and preliminary study on characteristics of calcium sulfoaluminate cement composites incorporating CNTs	Mr. Jisoo Kim (KAIST)
KKHTCNN_2023_114	Reviews on autogenous shrinkage and hydration of CSA cements upon different curing temperatures	Mr. Seongsik Choi (KAIST)
KKHTCNN_2023_023	Mechanical properties of high-strength engineered cementitious composites incorporating iron sand and quartz sand	Mr. Zhi Zhang (TU)
KKHTCNN_2023_124	Fire Behavior of Nano-modified Geopolymer Concrete Containing Waste Rubber as Partial Replacement of Natural Sand	Mr. Hafiz Waheed Iqbal (CU)
KKHTCNN_2023_029	Effect of Temperature on Performance of Crack Repair Materials on Rendered Walls	Mr. Pattharadej Sansara (CU)



Session: Transportation Engineering 1 (TRE-1)		
November 23,2023 (15:00-17:00) Room: Prego Event 1		
Session Chair: Assoc.Prof. Sorawit Narupiti (CU)		
Session Co-Chair: Assoc.Prof. Yu-Ting Hsu (NTU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_143	Mobility Service System Design for Transportation Vulnerable	Ms. Sharon Kim (KAIST)
KKHTCNN_2023_144	A Study on Risk Estimation Method for Highway Section Considering Road Type and Traffic State	Ms. Jihu Kim (KAIST)
KKHTCNN_2023_149	Applications of Multispectral Cameras to Evaluate the Reflectivity of Highway Markings	Mr. Jintasit Poopichit (CU)
KKHTCNN_2023_153	Causal and Spillover Effects of Railway Grade Separation	Mr. Po-Yen Yu (NTU)
KKHTCNN_2023_154	Location-Routing Problem in Humanitarian Logistics with Cooperative and Non-Cooperative Games	Mr. WENYUAN WU (NTU)
KKHTCNN_2023_156	A Selection Procedure for Light Rail Transit Signal Priority Strategies	Ms. Yu-Wen Tai (NTU)
KKHTCNN_2023_157	Optimization of Truck Delivery Considering Drone Resupply and Transfer	Ms. Sin Yi Huang (NTU)
KKHTCNN_2023_168	Exploring Factors Affecting Working From Home During COVID-19 Pandemic Using Public Transit Trip Data in Singapore	Mr. Wei Zhou (NUS)



Session: Transportation Engineering 2 (TRE-2)		
November 24,2023 (8:30-10:15) Room: Meeting Room 2		
Session Chair: Assoc.Prof. Jittichai Rudjanakanoknad (CU)		
Session Co-Chair: Asst.Prof. Yen-Hsiang Chen (NTU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_139	A Comprehensive Dynamic Spatial-Temporal Deep Learning Framework for Predicting Traffic Speed based on Large-Scale Road Networks	Mr. Tengfeng Lin (KAIST)
KKHTCNN_2023_145	Development of Traffic Simulation for Impact Assessment of Demand Responsive Transit System	Mr. Sujae Jeon (KAIST)
KKHTCNN_2023_148	Multi-Level Traffic Simulation Using Dynamic Simulation Level Assignment for Urban Network	Ms. Syelfia Safitri Tanjung (KAIST)
KKHTCNN_2023_035	Factors Influencing Behavioral Intention to Use Autonomous Shuttle pod in Chulalongkorn University	Mr. Yodphol Phetcharavut (CU)
KKHTCNN_2023_036	Exploring Road Safety Enhancement Challenges in Thailand's Highway Network via iRAP Star Rating Results	Mr. Kerkritt Sriroongvikrai (CU)
KKHTCNN_2023_163	Monitoring Traffic Related Air Pollution (TRAP) through Machine learning calibrated low-cost IoT sensors	Ms. Ying-ru Liu (NTU)
KKHTCNN_2023_164	Using IoT for Fine Particle Matter Data Collection in Traffic-Related Air Pollution Analysis	Ms. YIHSUAN CHEN (NTU)
KKHTCNN_2023_038	Centrifuge Accelerated Pavement Testing: A Novel Methodology for Evaluating Airport Pavement Performance	Dr. Zhiyong Zhang (NUS)



Session: Transportation Engineering 3 (TRE-3)		
November 24,2023 (8:30-10:15) Room: Meeting Room 3		
Session Chair: Prof. Kasem Choocharukul (CU)		
Session Co-Chair: Prof. Chiapei Chou (NTU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_138	Exploring Urban Air Mobility (UAM) Related Research Trends using LAD-based Topic Modeling	Ms. Hye-young Tak (KAIST)
KKHTCNN_2023_140	Understanding the Empirical Characteristics of Adaptive Cruise Control: Time-Delayed	Ms. Pei Jia Pok (KAIST)
KKHTCNN_2023_141	A Methodology for Queue Length Estimation and Forecasting in Signalized Intersection using Sampled Vehicle Trajectory	Ms. Hyejin Lee (KAIST)
KKHTCNN_2023_142	Future Highway Traffic Prediction Using the Spatial-Temporal Graph Convolutional Network	Mr. Haechan Cho (KAIST)
KKHTCNN_2023_152	Modeling Non-Compensatory Strategies on Path Choices in a Complex Urban Rail Transit Network Considering Characteristics of Transfer Passengers and Trips	Mr. Hsin-Cheng Shih (NTU)
KKHTCNN_2023_160	A Macroscopic Traffic Flow Model of Mixed Passenger Cars and Motorbikes in Urban Signalized Networks	Mr. Po-Yen Liao (NTU)
KKHTCNN_2023_169	Metro Passenger Routing Choices Estimation with A Fully Differentiable Simulation-Based Optimization (SBO) Approach	Mr. Kejun Du (HKUST)



Session: Transportation Engineering 4 (TRE-4)		
November 24,2023 (10:30-12:15) Room: Meeting Room 2		
Session Chair: Prof. Chiapei Chou (NTU)		
Session Co-Chair: Assoc.Prof. Sorawit Narupiti (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_146	Spatial-Temporal Queue Length Prediction for Traffic State Index Estimation at Signalized Road Network	Ms. Chaemin Na (KAIST)
KKHTCNN_2023_147	Hierarchical Urban Traffic Signal Coordination Considering the Operational Design Domain of Autonomous Vehicle	Mr. Hyunsoo Kim (KAIST)
KKHTCNN_2023_158	A Multi-period Optimization Model for the Deployment of Capacitated Charging Stations at the Highway Service Areas	Mr. Szu-Yuan Lin (NTU)
KKHTCNN_2023_159	Optimization of Integrated Passenger and Freight Delivery with Configurable Vehicles in Rural Areas	Ms. Jingya Lin (NTU)
KKHTCNN_2023_161	Bus Bottleneck Diagnosis and Traffic Engineering Treatments	Mr. Jian-Ting Chen (NTU)
KKHTCNN_2023_162	Integrated Two-Dimensional Intersection Design for Mixed Traffic Flow Incorporating Powered Two-Wheelers and Passenger Cars	Mr. Michael Franciudi Hartono (NTU)
KKHTCNN_2023_166	Taoyuan MRT Qingpu Line Operation Model Planning	Mr. Ching-Lun Chou (NTU)



Session: Transportation Engineering 5 (TRE-5)		
November 24,2023 (10:30-12:15) Room: Meeting Room 3		
Session Chair: Prof. Albert Chen (NTU)		
Session Co-Chair: Assoc.Prof. Jittichai Rudjanakanoknad (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_150	An application of the iRAP Star Rating for Safety Enhancement on the BMA Road Network	Ms. Usanee Raha (CU)
KKHTCNN_2023_151	Electric Vehicle Emission Analysis through Thermal Image Based Vehicle Classification	Mr. Chun Ping Liao (NTU)
KKHTCNN_2023_155	Textual Information-Base Disaster Identification and Severity Classification: A Case Study on the EMIC System	Mr. Pei-Chen Tai (NTU)
KKHTCNN_2023_037	Exploring Residence-related and Mobility-related Choices among the Young Generation: in the Era of High Housing and Rental Prices	Mr. Po-Yu Chuang (NTU)
KKHTCNN_2023_165	Exploration of DRTS in Taiwan from a supply within the spatial context-Using Changhua County as a case study	Ms. Yi Yun Lai (NTU)
KKHTCNN_2023_167	Enhance the Road Marking Performance with Retroreflectivity and Anti-skid Capability	Mr. Hao Tung (NTU)
KKHTCNN_2023_039	Holistic Assessment of cycling infrastructure with a novel IPB focusing on surface roughness and distresses	Mr. Wisely Jun Heng Ong (NUS)



Session: Construction Engineering and Management 1 (CEM-1)		
November 23,2023 (13:00-14:45) Room: Meeting Room 2		
Session Chair: Assoc.Prof. Vachara Peansupap (CU)		
Session Co-Chair: Asst.Prof. Szu-Yun Lin (NTU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_170	A Study on the Identification of Equipment/Worker Location and Collision Risk Situations Using a Single CCTV Camera in Construction Sites	Mr. Jaehwan Seong (KAIST)
KKHTCNN_2023_040	The Impacts of Intra-organization and Inter-organization Trust on the Performance of Construction Projects under Different Project Delivery Methods	Ms. Pornteera Sumetatikul (CU)
KKHTCNN_2023_171	PPP Metro Rail Transit Implementation for Urban Development in Dhaka: Opportunity and Risk	Mr. Rakibul Hasan (CU)
KKHTCNN_2023_043	Development of Work Process Quality Assessment Framework for Home Builder Companies	Mr. Chayanin Pannit (CU)
KKHTCNN_2023_045	Framework for Enhancing Data Acquisition in Railway Surface Defect Detection Using Deep Learning Algorithm	Mr. Thin Myat (CU)
KKHTCNN_2023_051	Investigating the Role of Urban Parks Types as Microclimate Modifiers to Outdoor Thermal Comfort	Mr. Vu Anh Le (NTU)
KKHTCNN_2023_172	BIM-based Carbon Emission Calculation Tool for Seismic Retrofitting Construction	Ms. Yuwadee Kulthanaphanich (NTU)
KKHTCNN_2023_173	Automated Filtering of Façade Defect Images Using a Similarity Method for Enhanced Inspection Documentation	Mr. Houhao Liang (NUS)
KKHTCNN_2023_175	A Tool to Live Capture the Idea Information in the BIM Environment during the Value Engineering Workshop	Mr. Fuhao Zhu (HKUST)



Session: Construction Engineering and Management 2 (CEM-2)		
November 23,2023 (15:00-17:00) Room: Meeting Room 2		
Session Chair: Assoc.Prof. Ying-Chieh Chan (NTU)		
Session Co-Chair: Assoc.Prof. Veerasak Likhitrungsilp (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_042	Developing Framework for Site Facility Placement using Reinforcement Learning	Mr. Jehan Chuduang (CU)
KKHTCNN_2023_044	A BIM-Based Digital Platform for Life-Cycle Cost Analysis of Air-Conditioning Systems	Ms. Jirathip Treetipbut (CU)
KKHTCNN_2023_046	A Conceptual Framework for Developing System to Evaluate the Quality Level for Button Marks During Plastering Process	Mr. Yar Pyae Aung (CU)
KKHTCNN_2023_047	Framework of AI-Driven Approaches for Identifying Construction Productivity	Mr. Nattanon Khunwisetkul (CU)
KKHTCNN_2023_048	Quality Inspection System for MEP System Installation in Concrete Precast Panel Using Mixed Reality Technology	Mr. Jariwat Tiawattananon (CU)
KKHTCNN_2023_049	Framework of an Automated System to Extract Material Prices for Calculating Material Unit Costs	Ms. Napatsorn Rattanacho (CU)
KKHTCNN_2023_050	Metaverse Prototype for Participatory Design Processes with People with Mobility Disabilities	Mr. Jiratiwat Sakulsak (CU)
KKHTCNN_2023_052	Building Elements and Activities Taxonomy for Task-level Monitoring using Construction Standards and Classifications	Ms. Phuong-Linh Le (NTU)
KKHTCNN_2023_174	Understanding the weathering mechanisms of cement-based façade materials via microstructural analysis, numerical simulation, and machine learning	Dr. Felipe Basquioto de Souza (NUS)



Session: Geotechnical Engineering 1 (GTE-1)		
November 23,2023 (15:00-17:00) Room: Meeting Room 1		
Session Chair: Prof. Mamoru Kikumoto (KU)		
Session Co-Chair: Assoc.Prof. Mingliang Zhou (TU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_177	Analytical method for determining the mechanical response of a tunnel structure crossing a reverse active fault	Mr. Guanxiong Zeng (KU)
KKHTCNN_2023_186	Simplified Free Vibration Decay Column (SFC) Test for Measuring Small-strain Soil Properties	Mr. Dong Hyeong Choi (KAIST)
KKHTCNN_2023_198	Dynamic fracture simulation of quasi-brittle materials using a generalized micropolar Peridynamic model	Mr. Xizhuo Chen (TU)
KKHTCNN_2023_063	Analysis of water migration characteristics of muddy clay subject to artificial ground freezing based on LF-NMR	Mr. Huade Zhou (TU)
KKHTCNN_2023_064	Analysis of Seismic Response and Failure Mode of Bedding Rock Slopes Based on the DEM-FDM Method	Mr. Maomao Liu (TU)
KKHTCNN_2023_065	Theory of P-save Multi-support Seismic Excitations by a layered V-shaped Canyon and Study on the Dam	Mr. Guang rui Feng (TU)
KKHTCNN_2023_066	Geomorphological map of Chiang Rai Province for liquefaction analysis	Ms. Pakawadee Anussornrajkit (CU)
KKHTCNN_2023_200	Influence of Extreme Climatic Loading on the Seismic Response of Offshore Wind Turbines on Layered Liquefiable Soils	Ms. Jing-Ying Yu (NTU)
KKHTCNN_2023_202	Effects of impermeable soil layers on liquefaction-induced ground settlement through shaking table testing	Ms. Hsiao-Feng Su (NTU)
KKHTCNN_2023_070	Mitigation of Reverse Fault-Induced Ground Deformation Using Geosynthetic-reinforced Foundations	Mr. Yuan-Chun Chung (NTU)



Session: Geotechnical Engineering 2 (GTE-2)		
November 23,2023 (15:00-17:00) Room: Meeting Room 3		
Session Chair: Assoc.Prof. Tae Hyuk Kwon (KAIST)		
Session Co-Chair: Asst.Prof. Veerayut Komolvilas (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_179	Short-term and long-term observation of fractured granite permeability by flow-through tests and X-ray CT tests	Mr. Zhiqi Li (KU)
KKHTCNN_2023_057	Modification of evolution law of grading for crushable soil	Ms. Florince Florince (KU)
KKHTCNN_2023_181	Tensile Force Development on Soil Bag Models Investigated by DEM	Mr. Maxime Vladimir Zabrodin (KU)
KKHTCNN_2023_184	Developing a novel miniature triaxial cell for in situ X-ray computed tomography of shale under supercritical CO ₂ injection	Dr. Jin Woo Kim (KAIST)
KKHTCNN_2023_185	Root-inspired Flexible Anchor Design: Effect of Architectural Complexity on Pullout Performances	Ms. Yoon Ah Kim (KAIST)
KKHTCNN_2023_187	Acoustic Emission Monitoring during Thermo-mechanical Cyclic Loading of Crystalline Granite Rock: Implication to Underground Hydrogen Storage	Mr. June Ho Park (KAIST)
KKHTCNN_2023_188	X-ray Computed Tomography Study on Abiotic Carbonate Mineralization in Fractured Basalt	Mr. Woo Jae Jang (KAIST)
KKHTCNN_2023_189	Effect of Anionic Surfactant on Interfacial Tension and Wettability of Rock/Water/CO ₂ System under Geological Carbon Storage Conditions	Mr. Alcantara Fuentes Marcopolo (KAIST)
KKHTCNN_2023_195	Digital twins for the geological body containing underground infrastructure	Assoc.Prof. Mingliang Zhou (TU)
KKHTCNN_2023_062	Performance analysis of pipe energy piles in layered soils	Mr. Jiaming Ye (TU)



Session: Geotechnical Engineering 3 (GTE-3)		
November 24,2023 (8:30-10:15) Room: Ballroom 2		
Session Chair: Prof. Dianlei Feng (TU)		
Session Co-Chair: Assoc.Prof. Hiromasa Iwai (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_182	Experimental Study on Physical Properties of Pulp Fibers for Treatment of High Water-Content Mud	Mr. Takumi Kojima (KU)
KKHTCNN_2023_183	Full-Field Measurement of Vertical Distribution of Void Ratio and Degree of Saturation in Partially Saturated Triaxial Specimens	Mr. Kouta Toda (KU)
KKHTCNN_2023_190	2D Scaled Experiments on Permeation Grouting in Saturated Soils: Effect of Grout Viscosity and Injection Rate	Mr. Tonny (KAIST)
KKHTCNN_2023_191	Effect of pH on Clay-Bacteria Interaction: Sedimentation Study	Mr. Hyun June Kim (KAIST)
KKHTCNN_2023_192	Study on Crack Inspection Performance in Tunnels using Knowledge Distillation	Ms. Jin Kim (KAIST)
KKHTCNN_2023_193	Preliminary Study on Evaluation of Layered Structure by Impact Echo Method	Ms. Doyeon Lee (KAIST)
KKHTCNN_2023_194	Experimental Study of CO ₂ Hydrate Formation in Sandy Soil Modified with Xanthan Gum	Ms. Sokpheapika Chea (KAIST)
KKHTCNN_2023_060	The Mechanical Properties of Aeolian Sand in the Tengger Desert	Mr. Wendong Xu (TU)
KKHTCNN_2023_243	Thermo-hydro-mechanical response of energy basements in Taipei basin	Ms. Xin-Bai Mao (NTU)



Session: Geotechnical Engineering 4 (GTE-4)		
November 24,2023 (10:30-12:15) Room: Ballroom 2		
Session Chair: Assoc.Prof. Tirawat Boonyatee (CU)		
Session Co-Chair: Assoc.Prof. Yasuo Sawamura (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_053	Surrogate-Model by XGBoost for seepage and circular slip hybrid analysis	Mr. Masahiro Imiya (KU)
KKHTCNN_2023_176	FEM Analysis of the Cantilever Bending Tests on Steel Pipe Sheet Piles	Mr. Junxiong Peng (KU)
KKHTCNN_2023_055	Elastoplastic Model for Rock Joint Considering Matching and Adhesion	Mr. Yuki Matsuoka (KU)
KKHTCNN_2023_056	Extended Kalman Filter Tank Model Controlled By Min-max Normalized Volumetric Water Content	Mr. Tensei Sakatani (KU)
KKHTCNN_2023_196	On the Usage of Lagrangian and Euler types of numerical methods for modeling of Hydrodynamic Problems	Prof. Dianlei Feng (TU)
KKHTCNN_2023_067	Numerical Modelling of Tire-reinforced Slopes for Riverbank Stabilisation	Mr. Phadungsak Hong-in (CU)
KKHTCNN_2023_199	Effects of Soil Nonlinearity on the Displacement Ductility Capacity of Scoured Fixed-Head Piles	Mr. Cheng-En Ho (NTU)
KKHTCNN_2023_069	Numerical Analysis of Frame Piers with Spread Footings Subjected to General and Near-Fault Earthquakes	Ms. Maria Desti Natalin (NTU)



Session: Geotechnical Engineering 5 (GTE-5)		
November 24,2023 (13:15-15:00) Room: Ballroom 2		
Session Chair: Assoc.Prof. Jiunn-Shyang Chiou (NTU)		
Session Co-Chair: Prof. Hideaki Yasuhara (KU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_054	Excavation analysis on a cut slope considering rainfall and swelling	Mr. Kaixuan Yuan (KU)
KKHTCNN_2023_058	Evaluation of the Performance of Road-Cross Section Constructed with Stabilized Soft Soil using Finite Element Analysis	Mr. Teshome Kebede Birhanu (KU)
KKHTCNN_2023_180	Measurement and Accuracy Verification of Small-Scale Collapsed Slopes using Close Range Photogrammetry	Ms. Miyuri Nishio (KU)
KKHTCNN_2023_061	Study of Cavern Spacing of CAES Cavern Group in Hard Rock Based on Plastic Zone and Deformation Analysis	Mr. Zeyuan Sun (TU)
KKHTCNN_2023_068	Comparative Study on the Wall Movement of Deep Excavations in Southeast Asian Countries	Mr. Hla Khine (CU)
KKHTCNN_2023_204	Evaluation of Post-failure behavior of Guanghua Landslide using Material Point Analysis	Mr. Yun Hsia (NTU)
KKHTCNN_2023_206	Preliminary study on kinematic behavior of an active large landslide using multi-temporal UAV investigation and digital image correlation analysis	Ms. Kuei-Ying Chang (NTU)
KKHTCNN_2023_207	Deep-learning-based Slope Safety Condition Monitoring using Multi-Source Data: A Case study of Hong Kong	Mr. Yong Li (HKUST)



Session: Geotechnical Engineering 6 (GTE-6)		
November 24,2023 (15:15-16:30) Room: Ballroom 2		
Session Chair: Prof. Kiyoshi Kishida (KU)		
Session Co-Chair: Asst.Prof. Veerayut Komolvilas (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_178	Numerical Study on the Influence of liquefaction-Induced Lateral Spreading on Ground Improvement Composite Pile in Sloping Ground	Mr. Yuki Muranaka (KU)
KKHTCNN_2023_059	Numerical Simulation of Excess Pore Water Pressure Generation on a Single Pile Supported by a Thin Bearing Layer	Ms. Winfred Nthuka Mutungi (KU)
KKHTCNN_2023_197	A hybrid knowledge extraction method for rock tunnel design	Mr. Jiaxin Ling (TU)
KKHTCNN_2023_201	Finite element modeling of diaphragm wall deflections due to deep excavation	Mr. Jia-Rong Pan (NTU)
KKHTCNN_2023_203	Implicit SPH Analysis of Non-Newtonian Fluids with High Viscosity Regions for Simulation of Slope Failure	Mr. Shodai Okano (NTU)
KKHTCNN_2023_205	Numerical analysis of geosynthetic reinforced soil subjected to blast load	Mr. Wen-Yan Wu (NTU)



Session: Sustainable Engineering 1 (SUS-1)		
November 23,2023 (13:00-14:45) Room: Prego Event 1		
Session Chair: Assoc.Prof. Youngchul Kim (KAIST)		
Session Co-Chair: Asst.Prof. Manop Kaewmorachoen (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_211	Application of Random Forest and Shapley Addictive exPlanations (SHAP) Models for Explaining Greenhouse Gas (GHG) Emissions in South Korea’s Building and Transportation Sectors	Mr. Wonjun No (KAIST)
KKHTCNN_2023_218	Carbon Sink Dynamics in the Context of Greenbelt Relaxation: A Case of Seoul of South Korea	Ms. Heesoo Kim (KAIST)
KKHTCNN_2023_219	Developing an Energy Map for Assessing the Impacts of Carbon Mitigation in Buildings within the Eunpyeong District	Ms. Jihyun Kang (KAIST)
KKHTCNN_2023_071	Review and Prospect of Recycling on Reclaim Asphalt Pavement (RAP)	Mr. Caihua Yu (TU)
KKHTCNN_2023_242	Automatic Detection of Dammed Lakes Based on Deep Learning and Semantic Segmentation	Mr. Yuan-Fu Zeng (NTU)
KKHTCNN_2023_234	Distributional Effects of Carbon Pricing on the Just Transition to Net Zero	Mr. Cheng Hsiang Shei (NTU)
KKHTCNN_2023_235	Empowering Grid Stability and Carbon Mitigation: Vehicle-to-Grid (V2G) Strategies for Electric Scooter Battery Swap Stations	Mr. Yuan-Hsi Chien (NTU)
KKHTCNN_2023_238	Make city more cycleable: uncovering the mismatch between cycling environment and cycling behaviour	Mr. Ce Hou (HKUST)
KKHTCNN_2023_241	Blazing a Trail: Gravity Center Inversion of Process driving Wastewater Treatment toward Energy Production and Resource Recovery	Mr. Dylan Ming-Han Li (HKUST)



Session: Sustainable Engineering 2 (SUS-2)		
November 23,2023 (13:00-14:45) Room: Meeting Room 3		
Session Chair: Assoc.Prof. Charinee Limsawasd (CU)		
Session Co-Chair: Prof. Jiing-Yun You (NTU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_209	Urban Design Strategies for Self-sustaining Deep Underground City	Ms. Seo Yeon Nho (KAIST)
KKHTCNN_2023_222	Heat Vulnerability and Spatial Equity of Cooling Center: Planning Implications from the Korean Case	Ms. Jisun Lee (KAIST)
KKHTCNN_2023_223	An Analysis of the Relationship between Urban Environment Variables by Land Cover Type and Non-Point Pollutants, Water Quality in Metropolitan Area of South Korea	Ms. Heeju Jung (KAIST)
KKHTCNN_2023_224	Transitioning to Renewable Energy in sub-Saharan African Countries: Bridging the gaps between Climate Action Responsibilities and the Electric Energy Demand	Ms. Ayantu Teshome Mossisa (KAIST)
KKHTCNN_2023_225	A Data-driven Method for Rapid Structural Health Analysis in Continuous Tunnels	Mr. Yifei Liu (TU)
KKHTCNN_2023_081	Investigation of the Effect of Injection Strategy on Precipitation Distribution Based on the Pore-Scale MICP Model	Mr. Yajie Chu (TU)
KKHTCNN_2023_041	Retrofitting Selection on Construction Equipment to Reduce Emissions for Road Construction Projects	Mr. Phattadon Khathawatcharakun (CU)
KKHTCNN_2023_226	A Design Thinking-Based Approach for Transdisciplinary Teaching Innovation in Engineering	Prof. Shang-Hsien Hsieh (NTU)



Session: Sustainable Engineering 3 (SUS-3)		
November 24,2023 (13:15-15:00) Room: Meeting Room 1		
Session Chair: Prof. Jiing-Yun You (NTU)		
Session Co-Chair: Assoc.Prof. Nakhon Kokkaew (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_212	Analyzing Hourly Changes in Consumer Behavior across Different Age Groups during the Early COVID-19 Pandemic	Ms. Hanew Suh (KAIST)
KKHTCNN_2023_220	Analyzing News Articles and Comments on Climate Change Using Text Mining	Ms. Chansol Oh (KAIST)
KKHTCNN_2023_221	Integrating Climate Mitigation, Climate Adaptation, and Policy in Smart City: A Review	Ms. Hyeonjin Lim (KAIST)
KKHTCNN_2023_076	A Bayesian structural full-field response construction approach considering input variance	Mr. Haibin Sun (TU)
KKHTCNN_2023_078	Trophic Level and Nitrogen, Phosphorus Pollution Evaluation in Poyang Lake, China's Largest Fresh Water Lake	Mr. Zejun Liu (TU)
KKHTCNN_2023_079	Remediation of groundwater pollution by nanobubbles coupled with permonosulfate advanced oxidation technology	Mr. Junbo Zhang (TU)
KKHTCNN_2023_080	Factors Influencing the Migration and Transformation of Carbon, Nitrogen, and Phosphorus in Groundwater within Wetland Critical Zones	Mr. Shuaishuai Lu (TU)
KKHTCNN_2023_230	Impact of Marine Heat Waves on Ocean Carbon Sink in the Coastal Area of California	Mr. Ching-Hao Fu (NTU)



Session: Sustainable Engineering 4 (SUS-4)		
November 24,2023 (13:15-15:00) Room: Meeting Room 3		
Session Chair: Prof. Shang-Hsien Hsieh (NTU)		
Session Co-Chair: Asst.Prof. Je-Chian Lin (NTU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_216	An Artificial Neural Network-based Energy Evaluation System for Small buildings within the Urban Context of South Korea	Ms. Seunghee Park (KAIST)
KKHTCNN_2023_217	Enhancing Building Energy Assessment: A Deep Learning-Based Approach with Random Forest and SHapley Additive exPlanations (SHAP)	Ms. Yerim Han (KAIST)
KKHTCNN_2023_077	Numerical study of total dissolved gas formation and transportation in vortex drop shaft spillway tunnel	Mr. Bin Zhang (TU)
KKHTCNN_2023_082	Preliminary Study of Tunnel Defect Recognition Using LiDAR Images	Mr. Kuan Yen (NTU)
KKHTCNN_2023_233	Navigating Data Scarcity in Short-term PV Power Forecasting: A Framework Merging LSTM, Geographic Interpolation, and Data Decomposition	Ms. Jing Siou Tseng (NTU)
KKHTCNN_2023_083	Indoor Inspection of Building Safety Using Object Detection from YOLO Algorithm	Ms. Chin-Jou Liao (NTU)
KKHTCNN_2023_239	Attention-transformer-Unet based Deep learning for spatial temporal turbulent flow prediction	Mr. Junle LIU (HKUST)
KKHTCNN_2023_240	Illuminate the Darkness for construction Robot Locating	Mr. XINYU CHEN (HKUST)



Session: Sustainable Engineering 5 (SUS-5)		
November 24,2023 (15:15-17:00) Room: Meeting Room 1		
Session Chair: Prof. Shang-Hsien Hsieh (NTU)		
Session Co-Chair: Assoc.Prof. Withit Pansuk (CU)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_213	Comparative Analysis of Development Potential of Subway Station Areas in South Korea's Local Cities Using the Node-Place Model	Ms. Jiyoung Kim (KAIST)
KKHTCNN_2023_214	A Comprehensive Review of Data Collection Methods in Urban Soundscape Studies	Mr. Jaewon Kim (KAIST)
KKHTCNN_2023_215	Exploring Unique Features in Origin-Destination Data for Bike Sharing Travel Patterns in Urban Space	Ms. Jeunghye Oh (KAIST)
KKHTCNN_2023_074	Experimental Verification of Fatigue Performance in Steel Bridge Welded Joints Considering Initial Defects	Mr. Daqian Cao (TU)
KKHTCNN_2023_075	Experiment and high cycle fatigue FE analysis of longitudinal rib-deck joints based on Chong'qi Bridge	Mr. Ruotong Wang (TU)
KKHTCNN_2023_231	Development of differentiable types of the Langevin equation for suspended sediment transport	Mr. Yin-Yen Peng (NTU)
KKHTCNN_2023_232	Integrating Work-Based Impulse Entrainment Criteria into Stochastic Modeling for Bed Load Particle Tracking	Mr. Cheng-Ho Chang (NTU)
KKHTCNN_2023_236	Improving Thermal Insulation Performance through 3D Concrete Printing Technology	Ms. Ruiqing Liu (NUS)



Session: Sustainable Engineering 6 (SUS-6)		
November 24,2023 (15:15-17:00) Room: Meeting Room 3		
Session Chair: Assoc.Prof. Tirawat Boonyatee (CU)		
Session Co-Chair: Assoc.Prof. Youngchul Kim (KAIST)		
Paper ID	Paper Title	Presenter
KKHTCNN_2023_208	Network Analysis for Tour Shuttle Mobility Prediction in Overtourism-Site	Mr. Chulwoong Park (KAIST)
KKHTCNN_2023_210	A Method of Analyzing Block-Scale Green Space Connectivity	Mr. Ha Kyeong Lee (KAIST)
KKHTCNN_2023_072	Phase field method for modelling non-uniform corrosion-induced cracking in concrete	Mr. Xurui Fang (TU)
KKHTCNN_2023_073	Experimental Study on the Corrosion Behaviour of High-performance Steel and Structural Steel Considering Stress State	Mr. Fangkuan Li (TU)
KKHTCNN_2023_227	Stochastic Suspended Sediment Dynamics Using Reflected Stochastic Differential Equation	Dr. Manotosh Kumbhakar (NTU)
KKHTCNN_2023_228	Entropy-Based Analysis of Nonuniform Suspended Sediment Transport	Mr. Shiv Mohan (NTU)
KKHTCNN_2023_229	Assessment of Interrogation Area using the Information Entropy Concept for Large-Scale Particle Image Velocimetry	Mr. Cheng-Wei Wu (NTU)
KKHTCNN_2023_237	Infrastructure Crack Segmentation Using Boundary Guidance Method and Generative Adversarial Network	Mr. Zhili He (HKUST)
