



The 8th Joint Workshop for Building / Civil Engineering between Tokyo Tech & Tongji

6 - 7 June, 2024 · Shanghai, China



同濟大學
TONGJI UNIVERSITY



土木工程學院
COLLEGE OF CIVIL ENGINEERING

Overview of the Workshop Program

Evening of 5 June: Japanese delegates arrive in Shanghai

6-7 June: Joint workshop presentations; 8th June: Technical tour

TIME	Jun. 06, 2024	TIME	Jun. 07, 2024
8:30-9:00	Registration	8:30-10:30	Student Session 2 (8 presentations)
9:00-9:20	Opening Address		
9:20-9:30	Group Photo	10:30-10:50	Coffee break
9:30-12:00	Keynote Lectures (2 presentations) +Coffee Break In between	10:50-12:05	Student Session 3 (5 presentations)
12:00-13:30	Lunch	12:05-14:00	Lunch
13:30-14:50	Lectures by Young faculties 1 (2 presentations)	14:00-15:15	Student Session 4 (5 presentations)
14:50-15:10	Coffee break	15:15-15:40	Coffee break
15:10-17:10	Student Session 1 (8 presentations)	15:40-17:00	Lectures by Young faculties 2 (2 presentations)
		17:00-17:20	Closing ceremony
		17:20-18:20	Visit STEM + Pre-party speech by Dean
18:00-20:00	Banquet for professors	18:20-20:30	Party (Professors+Students) + Best presentation awards

Workshop: Civil Engineering Building A804

Banquet for Professors: 2nd floor, V2/V3, Kingswell hotel

Party: Ground Floor, Civil Engineering Building

Detailed Agenda

June 06

Opening, Chair: Cheng Fang

Time	Speaker / Activity
09:00-09:10	Opening Speech by Prof. Fang Liu
09:10-09:20	Opening Speech by Prof. Toru Takeuchi
09:20-09:30	Group Photo

Keynote Session, Chair: Liangjiu Jia

Time	Speaker	Title of presentation
09:30-10:40	Prof. Toru Takeuchi	Recent Technologies for Performance Based Design in Japan-targeting Continuous Occupation
10:40-11:00	Coffee break	
11:00-12:00	Prof. Zhiguang Zhou	Effects of Soil-structure Interaction on Seismically Isolated Nuclear Power Plant

Young Faculties Session 1, Chair: Susumu Kono

Time	Speaker	Title of presentation
13:30-14:10	Prof. Miku Kurosawa	Deformation Performance of Non-structural Exterior Wall with Metal Panel in Different Scale Experiments
14:10-14:50	Prof. Xuhong Qiang	Enhancement of Structural Behaviour employing High Performance Materials
14:50-15:10	Coffee break	

Student Session 1, Chair: Xuhong Qiang, Tadashi Ishihara

Time	Speaker	Title of presentation
15:10-15:25	Keiichiro Sada	Elastic Local Buckling of Oblique Panels Subjected to Bidirectional Compressive Forces
15:25-15:40	Ci Song	Ultra-high-strength Concrete-filled Steel Tubular Stub Columns under Axial Compression: Experiment and Simulation
15:40-15:55	Ichiro Hirano	Structural Behavior and Low Cycle Fatigue Characteristics of Suspension Support Member for Building Equipment
15:55-16:10	Zhengyang Hou	A Framework to Consider Seismic Resilience Assessment in Task Allocation for UAV-based Post-earthquake Investigation
16:10-16:25	Maho Kobayashi	Dynamic Experimental Evaluation of Various Dependences in Full-scale Natural Rubber Bearing
16:25-16:40	Xurui Fang	Electrochemical-chemical-mechanical Phase Field Model for Rust Precipitation-induced Cracking in Concrete
16:40-16:55	Sometrey Mey	Deformation Capacity Assessment of Steel Beam-end Connections under Cyclic Loading Histories
16:55-17:10	Yifei Zhang	Seismic Design Optimization of Two-defense-line Restraining System for Unbonded Laminated Rubber Bearing Supported Highway Bridges Accounting for Maximum Credible Earthquakes

June 07

Student Session 2, Chair: Yuqing Gao, Shoichi Kishiki

Time	Speaker	Title of presentation
08:30-08:45	Yuzi Huang	Rotational Response of High-rise Base-isolated Building Observed by Structural Health Monitoring
08:45-09:00	Yuanpeng Zheng	Flexural Strength of Compacted Machine-made Snow
09:00-09:15	Minhui Li	Experimental Study of Shearing Deformation on CHN-US Style Ceiling
09:15-09:30	Zhen Wang	Optimal Seismic Design for Self-Centering Concrete Wall Structures Equipped with U-shaped Flexural Plate Dissipaters
09:30-09:45	Chengrui Luo	Finite Element Simulation Research of the Gap Brace
09:45-10:00	Junzhe Wang	Design, Testing, and Application of Device-Structure Three-dimension Vibration Reduction Systems Based on Inerter Systems
10:00-10:15	Razelle Dennise Agoba Soriano	Application of Equivalent-input-disturbance (EID) Method to Estimate the Wind-Forces on a Nonlinear Mid-story Isolated Building
10:15-10:30	Kang Jiang	Dynamic Wireless Sensing System Based on Passive Antenna Sensor Interrogated by FMCW Radar
10:30-10:50	Coffee break	

Student Session 3, Chair: Long Li, Koshiro Nishimura

Time	Speaker	Title of presentation
10:50-11:05	Qijun Liang	An Analytical Method for Viscoelastic Dampers of Arbitrary Layers under Large Strain Levels
11:05-11:20	Youlu Huang	Influence of Pounding on the Seismic Response of a Large-scale Suspended Ceiling System
11:20-11:35	Sota Okazaki	Estimation of Allowable Shear Force Considering Residual Shear Crack Width Limits in RC Beams
11:35-11:50	Jiahang Lyu	Stochastic Response Analysis of a Spar-type FOWT Subjected to Extreme Waves by a Novel Filter Wave Model and the DR-PDEE
11:50-12:05	Gaurav Bastola	Enhancing Bridge Structural Health Monitoring Through Acoustic Sensing: a Comprehensive Approach to Traffic Analysis and Incident Detection

Student Session 4, Chair: Cheng Fang, Daiki Sato

Time	Speaker	Title of presentation
14:00-14:15	Keito Nagao	Flexural Performance of Hollow Precast CFST Piles under Varied High Axial Loads
14:15-14:30	Qifei Zhang	Nonlinear Lateral Response of CLT Shear Walls: a General Computational Framework Based on Energy Variational Principle
14:30-14:45	Hao Bai	Extreme Rainfall Induced Risk Mapping of Metro System Using Multi-layer Network Model
14:45-15:00	Shuang Li	A 3D SPH Framework for Simulating Landslide Dam Rapid Breach Considering Erosion and Slope Instability Coupling
15:00-15:15	Imoleayo Oluwatoyin Fatoyinbo	Development of a New Buildability Evaluation Technique for Sustainable 3D Printable Concrete
15:15-15:40	Coffee break	

Young Faculties Session 2, Chair: Yoshihiro Yamazaki

Time	Speaker	Title of presentation
15:40-16:20	Prof. Zelin Wang	Capacity Spectrum Method for Seismic Design with Consideration of Safe Storage from Errors in R/C Member Estimated Yield Deformation
16:20-17:00	Prof. Yuqing Gao	Artificial Intelligence in Vision-based Structural Health Monitoring

Closing, Chair: Suwen Chen

Time	Speaker / Activity
17:00-17:10	Closing Speech by Prof. Akira Wada
17:10-17:20	Closing Speech by Prof. Xilin Lu



