



4th IABSE Young Engineers Colloquium in East Asia
Hong Kong, 2024

Schedule for Paper Presentation Technical Sessions



30 November and 1 December

4th IABSE YEC in East Asia Hong Kong, 2024

Schedule for Paper Presentation Technical Sessions

Session	Theme	Venue	Date & Time	ID	First Name	Last Name	Country	Title
1A	1. Seismic Resilience and Earthquake Engineering	Block P Hall PQ305	30 Nov 15:00 – 16:20	1	Noa	Suzuki	Japan	Comprehensive risk assessment of tsunami-induced casualties accounting for seismic resilience of evacuation route bridges in coastal areas subjected to compound earthquake and tsunami hazards
				2	Shintaro	Kobayashi	Japan	Experimental Performance Evaluation of Arch-Shaped Precast Concrete Bridge Piers Equipped with Friction Pendulum Systems under Cyclic Loads
				3	Tomoki	Yamashita	Japan	Experimental and Numerical Study on Precast RC Block Beams with Wave-Shaped Concrete Shear Key Connections for Emergency Temporary Bridges
				6	Taisei	Uehara	Japan	Effects of spatial steel corrosion and prestressing level on the structural performance of corroded PC beams
				18	Soomin	Kim	Korea	Time-Domain Aero-Hydrodynamic Coupled Analysis of a Floating Long-Span Bridge
				40	YunSeung	Lee	Korea	Twin Models for Analyzing Seismic Performance Levels of Prefabricated PSC Piers
				30	Giheon	You	Korea	Real-Time Hybrid Simulation of Floating Structures under Wind and wave Loads Using a 6-DOF Actuating System

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1B	2. Bridge Engineering and Structural Health Monitoring	Block P Hall P303	30 Nov 15:00 – 16:20	4	Jumpei	Shibuta	Japan	Corrosion-Crack Widths as Indicators for Evaluating the Probabilistic Load Capacity of Corroded RC Beams
				8	Eunsik	Lee	Japan	Hanger Cable Replacement of Bosphorus Bridge and Fatih Sultan Mehmet Bridge
				11	Siyi	Mao	Hong Kong SAR	A BIM-based Component Circular Passport
				12	Marcell	Tuska	Hong Kong SAR	Computational Design in the Analysis of an Extradosed Bridge
				14	Hyeonsung	Song	Korea	A new computational platform for damage-index-based reliability assessment of bridges in conjunction with finite element analysis
				22	Deming	Zhu	Hong Kong SAR	Assessing Coastal Bridge Resilience to Hurricanes: Integrating structural analysis, infrastructure restoration, and uncertainties

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2A	3. Innovative Materials and Construction Techniques	Block P Hall PQ305	30 Nov 16:40 – 18:00	5	Kippu	Ito	Japan	Current Advances and Applicability of Carbon-Neutral and Low-Carbon Concrete in Infrastructure: A Comparative Analysis of Japan, the United States, and Europe
				17	Dongho	Jeon	Korea	The internal mineral carbonation reaction in a clinker-free structural binder designed to achieve carbon neutrality
				39	Tae-Kyung	Kim	Korea	Evaluation of Compressive and Flexural Strengths of PVA Fiber-Reinforced Printed Material: Effects of interlayer number and comparisons with mold specimens
				37	Chisaki	Yoshimoto	Japan	Experimental Study on the Adhesion Performance of Thermoplastic CFRP Sheets for Flexural Reinforcement Bonded to RC Member
				35	Reika	Itani	Japan	Effect of lap splice length and its spacing width of flat RC beams with noncontact lap splices on fracture properties
				34	Ririka	Onishi	Japan	Elucidation of the stress transfer mechanism in non-contact lap splice in the equi-bending region of RC beams
				33	Xiaowei	Deng	China	Research on New Aseismic Systems of Prefabricated Bridges Based on the Concept of Seismic Resilience

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2B	4. Risk Assessment and Safety	Block P Hall P303	30 Nov 16:40 – 18:00	23	Himeri	Kaneta	Japan	Risk Assessment and Management for A Cable-Stayed Bridge in Japan
				46	Chen	Daoxin	China	Active warning system for bridge-ship collisions based on detection data fusion
				7	Shizuya	Sasaki	Japan	Investigation on the effects of correlation of spatial steel corrosion on the load-displacement relationship of RC superstructures
				9	Hyeong Yun	Cheon	Korea	Field Data-Based Risk Assessment of Vehicle Stability on a Sea-Crossing Long-Span Bridge Considering Wind and Rainfall Effects

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3A	5. Sustainability and Environmental Impact	Block P Hall PQ305	1 Dec 9:30 –10:20	20	Luyuan	Peng	Hong Kong SAR	Driving Circularity Measurement in the Construction Sector by Involving All Key Stakeholders
				31	Yaohan	Li	Hong Kong SAR	Assessing Extreme Risk to Coastal Bridges under Tropical Cyclones
				36	Sanghyun	Lee	Korea	Life cycle assessment of medium span bridge considering recycling potential of construction steel
				38	Bingyu	He	China	The Design of the Jingzhan-Shahe Bridge in Liyang City
				27	Cao	Pei	China	Function · Structure · Art—Design Strategies and Practice of Urban Landscape Arch Bridges

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3B	6. Advanced Computational Methods and Simulations	Block P Hall P303	1 Dec 9:30 –10:20	13	Minyeop	Kim	Korea	Design of Minimum Phase Digital FIR Notch Filter for Real-Time Hybrid Simulations
				15	Tabish	Ali	Korea	Development of a Computational Forensics Framework for Identifying Structural Material Properties in Reinforced Concrete Structures Using DIC and FEMU
				45	Cheng	Pan	China	Data Anomaly Detection Method for Structural Health Monitoring Based on Transfer Learning and Transformer Network
				47	Sunghyun	Kim	Korea	Active Turbulence Generation System with Wind Speed Compensation
				16	Luyao	Sun	China	A similarity-grouping based deep learning for dynamic photoelectric deflectometer signals anomaly detection in bridge structure health monitoring
				21	Jiseul	Park	Korea	Mechanistic modeling of cylindrical structures for predicting asymmetric elastic buckling during 3D concrete printing

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4A	7. Fatigue and Durability of Structures	Block P Hall PQ305	1 Dec 10:40 – 11:30	43	Junming	Zhao	China	Fatigue performance of load-carrying full penetration welded cruciform joints with principal stress oblique to the weld toe
				44	Heng	Liu	China	Fatigue performance and crack growth of headed stud connectors under low-temperature environments
				41	Zongmou	Li	Hong Kong SAR	Steel bridge Fatigue crack detection method based on YOLOX and DeepCrack
				32	Xuejing	Wang	China	Influence of live load correlation on fatigue performance of steel bridges
				42	Gang	Yang	China	Effective Width Evaluation for HSS-UHPC Composite Beams with Perfobond Strip Connectors

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4B	8. Innovative Design and Analysis Techniques	Block P Hall P303	1 Dec 10:40 – 11:30	28	Dongjin	Kim	Korea	Prediction of Response Time History under Seismic Loads Using Mode-Ensemble Deep Neural Network with Physics-encoded Kernels
				29	Simon	Ye	Hong Kong SAR	Assessment of an existing sign gantry under change of use and modification work: reflection and discussion
				25	Yanjie	Zhu	China	Domain-Specific Information Extraction in Bridge Inspection Reports Using Enhanced Pre-trained Language Models
				24	Linghao	Kong	Hong Kong SAR	Safety inspection of bamboo scaffolding: A Review
				26	Pei	He	Hong Kong SAR	Experimental and Numerical Investigation into Debonding Behavior of CHS Wrapped Composite X-Joints