Date	Sun, Oct. 30
18:00-20:00	**Welcome Reception @Howard Plaza Hotel Taipei**

Date	Mon, Oct. 31
08:30-09:30	Registration
09:30-10:00	**Opening Ceremony**
10:00-10:30	**Keynote Session** **Chair: Prof. Jianye Ching** Optimal Reliability-Based Aseismic Design of High-Rise Buildings — Prof. Alfredo H-S. Ang
10:30-11:00	Coffee Break
11:00-11:30	Risk-Informed Life-Cycle Maintenance Management Framework for Civil Infrastructure under Climate Change — Prof. Dan Frangopol & Prof. Akiyama
11:30-12:00	Challenges and Opportunities in Analysis of Structural and System Reliability — Prof. Armen Der Kiureghian
12:00-12:30	Bridge Rapid Assessment Center for Extreme Events (BRACE2): An Artificial Intelligence Framework for Structural Health Monitoring of Instrumented Bridges Prof. Khalid M. Mosalam
12:30-13:30	Lunch Break
13:30-15:00	**Special Session** **Chair: Prof. Shi-Shuenn Chen / Co-Chair: Prof. David De Leon** **Reconnaissance Report & Forum on 2022/Sep Earthquakes in TW & Mexico** 13:30-14:00 Reconnaissance report on the September 19th, 2022 Mexico Earthquake by the Mexican Society for Earthquake Engineering President Hector Guerrero & Prof. Jose Alberto Escobar Sanchez 14:00-14:30 Seismic Damage Caused by Guanshan Earthquake and Chihshang Earthquake, Taiwan, 2022 by the National Center for Research on Earthquake Engineering Director Chung-Che Chou & Dr. Chiun-Lin Wu 14:30-14:55 Discussions 14:55-15:00 MOU Signing Ceremony
15:00-15:30	Coffee Break
15:30-17:00	**Organized Session** **Chair: Prof. Chien-Kuo Chiu / Co-Chair: Prof. Fu-Chen Teng** MA1: Resilience/Risk/Reliability Assessment Methods for Infrastructure ◆ MA1-1: An Integrated Simulation Method of the Time-dependent Compressive Strength of Concrete for Column Members based on the 2D Heat Transfer Models by I-Hsiang Liao ◆ MA1-2: Resilience-considered Seismic Risk Assessment and Mitigation of a Retrofitting Method for a Bridge under Multiple Seismic Events by Chien-Kuo Chiu ◆ MA1-3: Reliability-Redundancy-Recoverability-based Decision Optimization (R3-DO) for Resilient Structural Systems by Seonghyun Lim ◆ MA1-4: Decision-support Measures for Disaster Resilience of Infrastructure Networks by Youngjun Kwon ◆ MA1-5: The strike and dip joint spacing uncertainty on the landslide debris run-out features by Yu-Han Cheng ◆ MA1-6: Application of artificial intelligence technique to assess the rock slope stability and probability of failure considering the seismic conditions by A.J. Li
18:00-20:30	**Banquet @Howard Plaza Hotel Taipei**

Date	Tue, Nov. 1	
08:30-09:30	Registration	
09:30-10:00	**Keynote Session** **Chair: Prof. I-Tung Yang**	
	Topology Optimization of Structures subjected to Stochastic Dynamic Loads – Recent Advances	Prof. Billie F. Spencer
10:00-10:30	Risk-informed maintenance strategy for the armour units of a breakwater including epistemic uncertainty	Prof. David De Leon
10:30-11:00	Coffee Break	
11:00-11:30	Validating the Current Approaches in Seismic Risk Analysis	Prof. Paolo Gardoni
11:30-12:00	System-reliability-based Disaster Resilience Analysis of a Cable Bridge under Fire Hazard	Prof. Junho Song
12:00-12:30	Probabilistic Design and Calibration of Partial Factors for Structural Systems	Prof. John Dalsgaard Sørensen
12:30-13:30	Lunch Break	
13:30-15:00	**Organized Session** **Chair: Prof. Narutoshi Nakata / Co-Chair: Prof. Pei-Ching Chen** TA1: Recent Advances in Experimental Earthquake Engineering ◆ TA1-1: Real-Time Hybrid Simulation for a Bridge RC Pier Subjected to Horizontal and Vertical Ground Motions by Yunbyeong Chae ◆ TA1-2: Development and Verification of Simplified Geometry-based Structural Models for Urban Earthquake Simulation by Narutoshi Nakata ◆ TA1-3: Hybrid Simulation of a Steel Frame using Mixed Control Modes with Experimentally Measured Displacement Incorporated in the Analysis to Consider the Column Shortening due to Local Buckling by Kung-Juin Wang ◆ TA1-4: Image-Based Displacement Feedback Control of Actuators for Experimental Earthquake Engineering by Pei-Ching Chen ◆ TA1-5: Numerical and Experimental Investigation of Track Nonlinear Energy Sink with Rotational Mass for Seismic Mitigation of Buildings by Chia-Ming Chang	
15:00-15:30	Coffee Break	
15:30-17:30	**Organized Session** **Chair: Prof. Yan-Gang Zhao** TA2: Seismic reliance evaluation of engineering structures ◆ TA2-1: A Simple Third-Moment Reliability Index by Jiayi Cai ◆ TA2-2: Compression Performance of Circular CFDST Short Columns with Eccentric Inner Steel Tube by Wei Fu ◆ TA2-3: Effect of earthquake scenarios on response spectral ratio by Haizhong Zhang ◆ TA2-4: Structural Reliability Analysis Using Information Exchange Particle Swarm Optimization Algorithm by Lixiang Cheng ◆ TA2-5: Energy Method of Confined Concrete in Axially Compressed Circular Concrete-filled Steel Tube Columns by Di Yang ◆ TA2-6: Reliability analysis of rail irregularity for CRTS II slab ballastless track based on sparse polynomial chaos expansion by Teng Liu ◆ TA2-7: Probabilistic Seismic Hazard Analysis for Regions Lacking Strong Ground Motion Records by Rui Zhang ◆ TA2-8: A Pratical Three Parameter Distribution and its Application to Architecture System by Yu-Tao Lu	

Date	Wed, Nov. 2	
08:30-09:30	Registration	
09:30-10:00	**Keynote Session** **Chair: Prof. Chien-Kuo Chiu**	
	Hierarchical Bayesian model – A model for site uniqueness in geotechnical engineering	Prof. Jianye Ching
10:00-10:30	L-moment-based Normal Transformation and its Application in Structural Reliability Analysis	Prof. Yan-Gang Zhao
10:30-11:00	Coffee Break	
11:00-11:30	Correlation in Time-Dependent System Reliability Analysis of Underground Pipe Network	Prof. Chun-Qing Li
11:30-12:00	Predicting Mechanical Strength of Reinforced Concrete Materials by Metaheuristics-Optimized Ensemble System	Prof. Jui-Sheng Chou
12:00-12:30	Parameter Identification for Linear System using Multiple Model Estimation	Prof. Ser Tong Quek
12:30-13:30	Lunch Break	
13:30-15:00	**Organized Session** **Chair: Prof. Kai-Chun Chang / Co-Chair: Prof. Ting-Yu Hsu** WA1: Structural health monitoring and safety evaluation ◆ WA1-1: Fundamental Natural Frequency Estimation of Buildings During Earthquakes Using Crowd's Smartphones by Ting-Yu Hsu ◆ WA1-2: Bayesian model updating of a simply-supported truss bridge based on dynamic responses by Xin Zhou ◆ WA1-3: APPLICATIONS OF DEEP LEARNING MODELS TO FREQUENCY-DOMAIN PHASE RESPONSES FOR DAMAGE DETECTION OF BUILDING STRUCTURES by Jau-Yu Chou ◆ WA1-4: Sensor placement optimization and response reconstruction for structural health monitoring with long-gauge FBG strain sensors by Zhenwei Zhou ◆ WA1-5: Numerical study of damage detection of a truss bridge using pseudo local flexibility method by Ting-Yu Hsu	
15:00-15:30	Coffee Break	
15:30-17:00	**Organized Session** **Chair: Prof. Kuo-Wei Liao / Prof. I-Tung Yang** WA2: Reliability-based maintenance, management, life-cycle design and performance of infrastructures ◆ WA2-1: Research and development of slope rolling-type seismic isolators combined with inerter by Ting-Xuan Chen ◆ WA2-2: AK-MCB-IS: An Adaptive Kriging with Multi Concentric Ball-based Importance Sampling by Handy Prayogo ◆ WA2-3: A Nonlinear Multi-Class Classifier of Vibrational Signals of A High-Pressure Chemical Reactor by Po Ting Lin ◆ WA2-4: Reliability Based Optimization of Controlled Structure Considering Structural Stiffness by John Thedy	
17:00-17:10	**Closing Ceremony**	

Date	Thu, Nov. 3
8:30-15:00	**Post-Symposium Tour: Danjiang Bridge**