

Japan-Korea Joint Seminar on Sustainable Bridges 2023 (JSSB2023) June 18 - 21, 2023

<http://infra.kuciv.kyoto-u.ac.jp/jssb2023/index.html>

June 19th 2023

TECHNICAL PROGRAM

Session	Start	End	Title	Authors
	10:00	10:20	Opening Ceremony	Opening message Prof. Hitoshi FURUTA
Keynote Lecture	10:20	10:50	Recent Developments in Steel-Conc. Composite Girder Systems	Prof. Sang-Hyo KIM
	10:50	11:00	Break	
Session I Sustainable Bridge System Chair: Prof. Hirohata	11:00	11:20	Bayesian Model Updating for Improved Structural Performance Assessment of a Steel-Concrete Composite Girder Bridge	Debao CHEN, Chul-Woo KIM
	11:20	11:40	Undesirable Behavior of Horizontally Segmented Precast RC Decks mounted on Steel Girders	Sang-Hyo KIM, Yeongku KANG, Suro YOON
	11:40	12:00	Structural Damage Risk Assessment using Bayesian Parametric Modeling: A case study	Zhihao WANG, Chul-Woo KIM, Daigo KAWABE
	12:00	12:20	Curved Pipe Shear Connectors for Precast Concrete Segments: Application to Longitudinally Segmented Precast Concrete Girder System (SB20 Bridge)	Sang-Hyo KIM, Jeong-Hun WON, Sung-Jae KIM, Suro YOON
	12:20	13:20	Lunch Break	
Session II Monitoring and Inspection Chair: Prof. Kawatani	13:20	13:40	Strategy for social implementation of bridge anomaly detection technology - as a university launched venture company -	Daigo KAWABE, Chul-Woo KIM
	13:40	14:00	Smart Data Pipelines for Aging Bridge Infrastructures	Chungwook SIM
	14:00	14:20	Acceleration-based structural rotation and deformation estimation in a data-driven model	Hanliang YU, Chul-Woo KIM
	14:20	14:40	Estimation of Tensile Strength of Rusted Steel by Visual Inspection	In-Tae KIM
	14:40	15:00	GAN-based prediction models for corroded surfaces of weathering steel in accelerated corrosive and atmospheric environments	Feng JIANG, Makihito HIROHATA
	15:00	15:20	Break	
Session III Structural performance Chair: Prof. Chungwook Sim	15:20	15:40	Development of Timber-FRP Composite Girders for Road Bridge Application	Akihiko SATO, Kunitomo SUGIURA
	15:40	16:00	Fatigue Life and Crack Analysis by 3D Fatigue FEM	Kyong-Ho CHANG
	16:00	16:20	Long-term cable tension monitoring based on ambient vibration	C.W. KIM, Wenjie JIANG
	16:20	16:40	Assessment of the Variability of Earth Pressure Acting on Underground Structures through Centrifuge Tests	Sang Inn WOO
	16:40	16:50	Closing Ceremony	Closing message Prof. Sang-Hyo KIM
	16:50	17:00	Group Photo	

18:00 20:00

[Dinner@Funatsuru](#)

<https://www.funatsuru.com/party/>