

**Tuesday 24 July**

9:45-10:30	workshop opening celemony with Nishitani & Spencer welcome speeches and Liu & Tomizuka speeches			
10:30-11:00	Coffee Break (1st Floor Lobby)			
11:00-11:50	Keynote Speech for Nano technology or Sensor Technology			
11:50-13:20	Lunch			
	Piezoelectric Sensor and Actuator	Sensing methodology	SHM	Control and Identification of Damper
13:20-13:45	Reference-free Impedance-based Structural Health Monitoring	Sensing Properties of Magnetorheological Elastomers	Reliability Based Slope Monitoring System Considering Shallow Slope Failure Induced by Rainfall Infiltration	Control of Hysteretic Systems using LPV Gain Scheduling Controller
	S.Park, C.Lee and H.Sohn	X.Wang, F.Gordaninejad, M.Calgar, J.Sutrisno and A.Fuchs	S.Lee, J.Choi,Y.Kim and Y.Song	D.T.R.Pasala, S.Nagarajaiah and K.Grigoriadis
13:45-14:10	Traffic Monitoring using Cement-based Piezoelectric Sensors	MEMs-based Smart Sensors for Autonomous Structural Health Monitoring of Bridges	Self Sealing and Monitoring of Tanks and Pressure Vessels	Analytical and Experimental Studies of Multiple Tuned Mass Dampers for Structural Control with Constraint of Stroke
	X.M.Yang, C.C.Chang and Z.J.Li	J.H.Park, D.S.Hong, J.T.Kim and Y.S.Ryu	D.R.Huston, X.Y.Sun, J.Y.Zheng, Q.Qin, Y.Chen, D.Hurley, F.Sansoz and D.Savin	C.C.Lin, J.F.Wang, C.H.Lian and H.W.Chiang
14:10-14:35	Health Monitoring of FRP-Strengthened Concrete Structures by Impedance-Based Method	Guided EM Wave and Ultrasonic Method for Bridge Scour Monitoring: A Comparative Study	Multi-scale sensing for structural health monitoring	Simultaneous System Identification of Visco-elastic and HystereticDampers Represented by Maxwell and Bouc-Wen Models
	H.k. Lee and R.Tawie	X.Yu and X.B.Yu	S.H.Sim and B.F.Spencer, Jr.	A.Nishitani,C.Wakahara,H.Seko,D.Nakamizo and Y.Nitta
14:35-15:00	Development of a Portable and Low Cost Power Amplifier for PiezoCeramic Actuators	Towards a New Approach for Nonintrusive Sensing of Human Bio-signals in Human-Machine Interaction	Comparative Assessment of Vibration-Based Damage Identification Algorithms Based on Measurment Techniques	Development, Implementation, and Application of Mixed Load and Displacement Control for Multi-Dimnsional Hybrid Simulation
	C.Olmi, G.Sing and Y.L.Mo	Y.Lin	Z.S.Wu and A. P. Adewuyi	N.Nakata, B.F.Spencer, Jr., and A.S.Elnashai
15:00-15:25	Piezoelectric Sensor System for Structural Health Monitoring	Distributed Monitoring of Moisture Ingress for Cable Structures	Optimal Sensor Placement for Output-only Structural Health Monitoring	
	B.Kim and Y. Roh	F.Mlekicki and M.Ghandehari	W.Song and S.Dyke	
15:25-15:50	Coffee Break (1st Floor Lobby)			
	Optical and camera based sensor	SHM Application	SHM for Concrete	
15:50-16:15	Measuring Temperature, Pressure, and PH by Optical-Fiber Sensor	Structural Health Monitoring System for Guangzhou New TV Tower: Design and Implementation	Development of Damage Estimation Method Using Impact Echo in Concrete	
	Y.Akimune, H.Tsuda, A.Mukunoki, M.Chijimatsu, R.Wada and M.Aoki	Y.Q.Ni, Y.Xia, W.Y.Liao and P.Zhang	W.J.Kim, I.S.Kim, H.J.Kim, D.M.Kim, and W.Y.Chun	
16:15-16:40	In-situ Materials Analysis with Optical Electrode	3 Years Vibration Monitoring of a Cable Stayed Bridge	Development of Smart Concrete Applying the Resistance Property of Electric Fuse and Light-Emitting Diode	
	M.Ghandehari	Y.Miyamori and T.Oshima	I.S.Kim, W.J.Kim, H.J.Kim, B.Y.Kim and K.H.Ko	
16:40-17:05	Fiber Optic Smart Monitoring of Railway Structures	ANCRiSST Benchmark Problem on Structural Health Monitoring of High-rise Structures	Condition Assessment of the Interface between Concrete and Embedded Coaxial Cable Sensor with Uncoupled Electromagnetic and Mechanical Modeling	
	K.S.Kim	Y.Xia, Y.Q.Ni, J.M.Ko and H.B.Chen	G.Chen, M.Wang, M.Koledintseva and D.Pommerenke	
17:05-17:30	Remote Sensing of Structural Vibration Using Laser Speckles	Effect of the Environmental Temperature on Damage Identification using the Vibration based Damage Identification Methods	An analysis on Carbonation Velocity for Concrete Structures in Korea	
	F.P.Chiang and K.Machida	N.H.M.K.Serker, Z.S.Wu and A.P.Adewyuyi	S.B.Park, J.H.Kim, K.C.Oh and Y.Juang	
17:30-17:55	Measurement of 3D Rotation and Translation using Single Camera	Load and Environmental effects of a Damaged PC Box Girder Bridge	Recent Progress in Piezoceramic Based Smart Aggregates	
	C.C.Chang and X.H.Xiao	M.L.Wang	G.Song, H.Gu, Y.L.Mo, S.Yan and W.I.Liao	
18:00-19:00	Reception with Beer and Wine at Restaurant "Seihoku no Kaze" at Building #26 (Okuma Tower Building)			

Wednesday 25 June

9:10-10:00	Keynote Speech on Nano Technology: Professor Iwao Odomari, Waseda University		
10:00-10:30	Coffee Break (1st Floor Lobby)		
	Wireless sensor I	Control I	SHM Algorithm
10:30-10:55	Exploiting Passive Patch Antenna for Strain Measurement	Performance Test of Tuned Liquid Mass Damper for Controlling Bi-directional responses of Building Structures	Pavement Structural Health Monitoring Using Falling Weight Deflectometers
	U.Tata and H.Huang	J.S.Heo, E.Park, S.K.Lee, K.W.Min, S.H.Lee, J.Jo, B.H.Cho and H.Kim	L.Sun, W.Gu, Y.Zhang, B.J.Kim and Y.Zhu
10:55-11:20	Development of Bridge Inspection System by Using Wireless Network Technologies	Novel Colloidal Dampers for Smart Structures	A New Statistical Moment-Based Structural Damage Detection Method: Experimental Investigation
	T.Harada and K.Yokoyama	G.Zhou, B.Johnson and L.Sun	J.Zhang, Y.L.Xu and J.C.Li
11:20-11:45	Decentralized output-only modal identification techniques for wireless monitoring systems	Smart Control of High Tech Facilities	Substructural Damage Detection Using Pseudo-Modal Deflections under a Positive-Bending-Inspection-Load Obtained by Pseudo-Modal Flexibility Matrices
	M.Shiraishi and J.P.Lynch	Y.L.Xu	K.Y. Koo and C.B.Yun
11:45-12:10			Identification of Abruptly Changing Parameters in Structural Dynamic Systems Using Adaptive Monte Carlo Filter
			M.Chung, T.Soto and C.B.Yun
12:10-13:00	Lunch		
	Wireless sensor II	Control II	Signal Processing/Diagnostics
13:00-13:25	Wireless Sensing and Structural Control Strategies	Experimental Verification of Effectiveness of Self-powered Smart Damping System Based on MR Damper	Prediction of the In-situ Undrained Shear Strength Using the Shear Wave
	K.H.Law, A.Swartz, J.P.Lynch, and Y.Wang	H.J.Jung, D.D.Jang and H.J.Lee	T.M.Oh, I.Chang and G.C.Cho
13:25-13:50	Structural Health Monitoring Systems Using Smart Sensors	Real-time Hybrid Tests of Response Control of Base Isolation System by MR Damper	Experimental Verification of ASNLSE Approach for Damage Identification of Structures
	T.Nagayama, B.F.Spencer, Jr., and Y.Fujino	H.Fujitani, R.Kawasaki and Amasutani	H.Huang, J.N.Yang and L.Zhou
13:50-14:15	Embedded Hilbert Transform-Based Algorithm within a Field Programmable Gate Array to Classify Nonlinear SDOF Systems	Numerical Investigation of Base-Isolated Structures Employing MR Elastomer	The Development of Laser Ultrasonic Visualization Instrument and Its Applications to Damage Diagnoses
	J.D.Jones, J.S.Pei and M.Tull	S.H.Sung, H.J.Joung, H.J.Lee and J.H.Koo	B.Wang, J.Takatsubo, N.Toyama and H.Miyauchi
14:15-14:40	Coffee Break (1st Floor Lobby)		
14:40-16:10	Group Dissscussion I	Group Dissscussion II	
16:10-16:40	Group Dissscussion Reports		
16:40-17:00	Closing Session		
18:15	Workshop Dinner at RIGA Royal Hotel Tokyo		