

Session Date	Session time	Session Title	Chair Last Name	Chair First Name	Lead Author Last Name	Lead Author First Name	Paper Title
3/3/2008	10:30am-12:00pm	Health Monitoring and Sensor I	Hiroshi Liufeng	Katsuchi Zheng	Steve C. S. Hiroshi	Cai Katsuchi	Monitoring of a FRP-wrapped Balsa wood bridge deck with fiber optic sensors
					Liufeng	Zheng	Structural Monitoring and Design Verification of Akashi Kaikyo Bridge
					Ying	Xu	Simulation of the MIS hydrogen chemical sensor response
					Hongping	Zhu	3D Delamination patch detection in laminate composites with optical fiber sensor
					Guofu	Qiao	Construction monitoring of Xiao-xita Bridge based on the monitoring signals
							Corrosion monitoring of reinforcing steel in concrete by corrosion sensors
3/3/2008	10:30am-12:00pm	Structural Control I	Limin Jun	Sun Teng	Limin	Sun	Studies on Effecting Factors of Damper Efficiency for Long Stay Cables
					Faxiang	Xie	Active control of cable stay bridge with close modes during construction
					Hongjun	Liu	Study on Feed Forward and Feedback Hybrid Control for High-Tech Platform
					Jun	Teng	The Nonlinear Problems on the Development of the Performance of SATMD in Applications
							Control-Structure Interaction in Structural Vibration Control
3/3/2008	1:30pm-3:00pm	Damage Detection I	Jing Ying	Cai Lei	Ying	Lei	A Time-Series based Structural Damage Detection and Localization Approach for Smart Sensors
					Youyuan	Lu	Cement-based piezoelectric sensor for acoustic emission detection in concrete structures
					Jose	Covarrubias	Detection and Isolation of Process and Sensing Faults
					Jing	Cai	Structural Discrete Damage Detection and Integral Status Assessment Based on the Lower Eigenvalues
							An Improved Diagnostic Method for Detection of Bolt loosening in Thermal Protection Panels
3/3/2008	1:30pm-3:00pm	Fiber Bragg Grating Sensor	Deniz Xuefeng	Gurkan Zhao	Xuefeng	Zhao	A novel micro fiber Bragg grating displacement sensor
					Liang	Ren	Design and Performance of FBG strain sensor and application in the vibration experiment of mansion model
					Chin	Chang	A Tutorial Review on Fiber-Optic Sensors
					Xuefeng	Zhao	Long Gauge Fiber Bragg Grating Sensor with Pretension
					Deniz	Gurkan	Response Characterization of a Fiber Bragg Grating Sensor to Different Sound Tones
							Intelligent Monitoring of Erbian Dadu River Arch Bridge using fiber Bragg gratings
3/3/2008	3:30pm-5:00pm	Control and Application I	Yongpeng Zhao	Zhang Lu	David-Robert Ren	Graves Dai	Designing a Decentralized Reconfigurable Control (DRC) System for a Segmented Reflector Test-bed
					Gangbing	Song	Solution to Aircraft Minimum-Time-To-Climb Problem using Wavelet Series
					Dharma Theja	Pasala	PWM Control of SMA Actuated Blowout Preventer Using PLC
					Bin	Huang	Hysteresis Compensation in Tracking Control of Thunder Actuator Using Linear Parameter Varying (LPV) Method
							Smart TMD control of random high-rise building under wind
3/3/2008	3:30pm-5:00pm	Advanced Materials for civil engineering	Xianyu Tiejun	Jin Liu	Ye	Tian	Concrete Thermal Cracking Analysis with Cement Hydration Model and Equivalent Age Method
					Zhongdong	Duan	Percolation threshold and piezoresistivity property of multi-walled carbon nanotubes reinforced cement material
					Tiejun	Liu	Experimental study and numerical simulation on damping behaviour of fiber reinforced concrete and its frame structures
					Steve C. S. Huiqiang	Cai	Monitoring of Concrete Cracking and FRP-repair Debonding Using OTDR Techniques
							Piezoresistivity model of cement-based composites filled with carbon black
3/4/2008	10:30am-12:00pm	Health Monitoring and Sensor II	Rafiqul Chao	Tarefder You	Wen-I	Liao	Structural Health Monitoring of a Concrete Column Subjected to Shake Table Excitations Using Smart Aggregates
					Xiaojing	Yuan	A Fault Tolerant Efficient Scheduling Method for Improved Network Delay in Distributed Sensor Networks
					Rafiqul	Tarefder	Nano-Coated Quartz Sensors for Sensitive Moisture Profiling of Porous Media
					Zhi	Zhou	Study on the coupling effects and absolute temperature compensation technique based on long term monitoring data
					Mahmoud	Reda Taha	Hot-Spot Damage Monitoring in Aerospace Composites using Acoustic Bandgap Sensors
							A Circuit Design for Piezoelectric Impedance-Based Health Monitoring
3/4/2008	10:30am-12:00pm	Structural Control II	Hongnan Jianlin	Li Zhang	Junlong	Liu	Direct Drive Volume Control of Elector-hydraulic Servo System and Its Application in Active Mass Damper (AMD) Control System
					Jianqiang	Wang	Analysis on seismic response of base-isolated structures with friction pendulum system under bilateral ground motions
					Jianlin	Zhang	An Optimal Vibration Control and Damping Devices Design for Three Dimensional Building Structures
					Luyu	Li	Observer and controller design for vibration suppression of a structure with MR brakes as nonlinear hinges
							Fault Tolerant Control of a Building Structure with AMD

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3/4/2008	1:30pm-3:00pm	Damage Detection II	Hongping Yilung	Zhu Mo	Norman Hongping Hongping Hongping Xiaomo	Hoffman Zhu Zhu Zhu Jiang	Damage Detection of a Prestressed Steel-Fiber Reinforced Panel Using Smart Aggregate Damage Detection on the Joint of Steel Frame through High-Frequency Admittance Signals Sensitivity Analysis of Modal Parameters of Shear-type Frame Structures in Damage Detection Structural Damage Identification via Pseudo Strain Energy Density and Wavelet Packet Transform An Intelligent Online Damage Detetion System for Thermal Protection Panels with Active Sensors
3/4/2008	1:30pm-3:00pm	System Identification	Helen Hugo	Boussalis Elizalde	Rogelio Xiaoyan Christian Guirong Ying Bin	Guzman Zhao Torres Yan Lei Xu	Non linear identification via smart sensors/actuators within a closed loop control Parameters Identification of Concrete Structure Based on Built-in PZT Sensors Frequency-Domain System Identification of a Segmented Parabolic Reflector Comparison of Several Nonlinear System Identification Methods through an Experiment of a Steel Structure Intelligent Sensors with Application to the Identification of Operational Modal Properties of Structure Identification for a Model Frame Structure Using Strain Measurements from FBG Sensors
3/4/2008	3:30pm-5:00pm	Control and Application II	Chunwei Alex	Zhang Elias	Huai-Bing Chunwei Jianbing Qian Alex	Xu Zhang Chen Ma Elias	Parameters Optimization for Structural Pendular Vibration Using TRID Control System Principles and Applications of Structural Pendular Control PDEM-based Semi-active Control of Stochastic Systems Study of the dynamic stability and intelligent control Using semi-active control to suppress chatter in milling operations
3/4/2008	3:30pm-5:00pm	Shape Memory Alloy: Modeling and Sensing	Shi Hui	Yan Li	Hui Shi Shi Chenxi Haibao	Qian Yan Yan Mao Lv	A Constitutive Model of Shape Memory Alloys with Consideration of Martensitic Hardening A continuous dynamic constitutive model of shape memory alloys Electrical resistance modeling of shape memory alloys for structural health monitoring Experimental Study on Shape Memory Alloy Displacement Transducer Multifunctional sensor and actuator using conducting shape memory polymer
3/5/2008	10:30am-12:00pm	Nano Technology Enabled Materials	Jihua Jinsong	Gou Leng	Gangbing Christiana Jihua Jinsong	Song Chang Gou Gou Leng	Acoustic damping in composites strengthened by carbon nanofiber paper sheets Material Characterization of Non-Traditional Nanocomposite Plates Microcracking of Carbon Nanofiber-Modified Nanocomposites under Thermal Cycling Nanoclay Migration and Surface Concentration during Processing of Nanoclay/Epoxy Resin Composites Shape memory nanocomposite and its application
3/5/2008	10:30am-12:00pm	Innovative Piezoelectric Actuators and application	Tian-Bing James	Xu Dabney	Tian-Bing Abiud James Claudio Mandeep	Xu Flores Dabney Olmi Ahuja	Piezoelectric Single Crystal Multilayer-Stacked Flextensional Actuator for Large Displacement Controls Studies about the Performance of PZT Actuators and Sensors for Tool Holding Systems in Micro-EDM Stable Torque Regulation of Piezoelectric Ultrasonic Motors Development of a portable and low cost power amplifier for piezoceramic actuators Increasing the noise transmission loss across an aluminum panel using PZT actuators
3/5/2008	1:30pm-3:00pm	Advanced Technology	Bin Saiji	Huang Fukada	Mohammad Lin Tze Guoxin Saiji Saiji	Aljanaideh Tan Wang Fukada Fukada	A Generalized Asymmetric Prandtl-Ishlinskii Model for Characterizing Hysteresis Nonlinearities Deployable Reflector Antennas Scenario Earthquake for Key Engineering Structures Ground vibration measures for the rocking vibration of the piers with two-box girders bridge Vibration characteristics of the PC Bridge resonated to the vehicles generated by the road roughness nearby the expansion joint
3/5/2008	1:30pm-3:00pm	MR Fluid Dampers and Control Application	Shirley Chin-Hsiung	Dyke Loh	Yongpeng Chin-Hsiung Xinchun Min Shirley	Zhang Loh Guan Liu Dyke	A simple but optimal semi-active control method Building Control Using MR-Dampers:Centralized versus Decentralized Control Durability investigate of magnetorheological fluid damper Semi-active Vibration Control of Stay Cables Incorporated with Magneto-Rheological Fluid Damper Fragility Based Analysis of a 20 story Benchmark Building with Smart Device Implementation

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3/5/2008	1:30pm-3:00pm	Sensor Placement and Network	Deniz Guoxin	Gurkan Wang	Dongsheng Guoxin Hongping Yu Deniz Deniz	Li Wang Zhu Song Gurkan Gurkan	On optimal sensor placement for structural health monitoring by subspace approximation Optimal Positioning of Accelerograph Array on High-rise Building Optimal sensor placement for bridge healthy monitoring Sensor Placement Optimization for Damage Detection Testing Strategies for IEEE 1451-based Smart Sensor Network Sensor Networking with IEEE 1451 Compatibility Testing
3/5/2008	3:30pm-5:00pm	Advanced Experiment Technology	Sheliang Bin	Wang Wu	Mithun Arghadeep Bin Sheliang Wenguang	Singla Laskar Wu Wang Liu	Development of an interactive smart vibration beam experiment Progressive Collapse of a 2-story Reinforced Concrete Frame Real-time Substructure Testing with Equivalent Force Control Method and its Application to Structure with Smart Dampers The study on shaking table test of intelligent vibration control for space steel structure Earthquake Response Control and Dynamic Tests Research on Bridge and Building Complex Structural System
3/5/2008	3:30pm-5:00pm	Shape Memory Alloy: Actuation and Control	Charles Jun	Dalton Liang	Yu Bingshan Wenjie Atilla Dawei Charles	Dong Hu Ren Kilicarslan Zhang Dalton	A Stretched out Structure Actuated by Shape Memory Alloy Springs A Shape Memory Alloys Actuated Miniature Bio-inspired Multi-cavity Negative Pressure Suction Cup An innovative shape memory alloy damper for torsionally coupled seismically excited structures DNN and ANFIS Based Modeling and Control of a Thin SMA Wire Infrared Laser-activated shape memory actuators Suppression of Vortex-Induced-Vibration using Shape Memory Alloy Springs
3/5/2008	3:30pm-5:00pm	Wireless Sensor and Sensor Network	Yan Xiaojing	Yu Yuan	Yu Rong Xiaojing Kevin Yan	Song Zheng Yuan Tseng Yu	Application of Wireless Sensing System for the Wuyuan Steel Arch Bridge High-rate Sensing in Wireless Structure Monitoring Systems Performance Analysis of Data Aggregation in Wireless Sensor Mesh Networks Wireless Sensor Network for Structural Health Monitoring of Civil, Mechanical, and Aerospace Systems Wireless inclinometer sensor and its data acquisition system for swing monitoring of larger scale structure