

Thursday, July 15 th					
07:30	Start Registration first floor				
08:15-09:00	Plenary Lecture 3		Room H1	first / second floor	
09:00-09:45	Plenary Lecture 4		Room H1	first / second floor	
09:45 - 10:15 Coffee Break					
	Contributed Sessions				Mini – Symposia
	Room H1 first / second floor	Room H5 second floor	Room H6 second floor	Room H3 second floor	Room H8 second floor
10:15 – 11:45	1-16 Passive Control II	4-1 Assessment I	6.1-3 Bridges III	5-6 Health Monitoring VI	M5 Innovative Applications of Smart Technology
11.45 - 13:00 Lunch					
13:00 – 14:30	1-17 Passive Control III	3-2 Experimental Methods II	6.2-3 Buildings III	4-2 Assessment II	M7 The European SAMCO Network
14:30 - 14:45 Break					
14:45 – 16:15	1-18 Semi -Active Control I	4-3 Assessment III	6.3-3 Different Structures III	5-7 Health Monitoring VII	M8 Fluid Power Actuators for Structural Control
16:15 - 16:45 Coffee Break					
16:45 – 18:15	1-19 Semi -Active Control II	3-3 Experimental Methods III: Shaking - Table - Tests	6.1-4 Bridges IV: Steel- and Railway Bridges	4-4 Assessment IV: Landslide Risk	M9 Control of Structures + Applications

THURSDAY, JULY 15th:

ROOM: H1 first / second floor Sectional Keynote Lecture Plenary Lecture

Plenary Lecture 3: 08:15 – 09:00

Chair: Flesch, R.	Co-Chair: Brandl, A.
Speaker: Link, M. Co-Author: Schedlinski, C.; Göge, D.	Parameter Identification and Validation of Large Order Finite Element Models for Industrial Type Structures

Plenary Lecture 4: 09:00 – 09:45

Chair: Bourquin, F.	Co-Chair: Brandl, A.
Speaker: Noda, N. Co-Author: Ishihara, M.	Deformation-control of Smart Piezoelectric Composite Plates

Session 1-16: Passive Control II: 10:15 – 11:45

Chair: Baratta, A.	Co-Chair: Reiterer, M.
Heuer, R.; Adam, C.	Passive Control of Structures and Structural Elements Considering Nonlinear Response
Boroschek, R.; Barbat, A.	Analytical Model for High Damping Elastomers Applied to Energy Dissipating Devices. Numerical Study and Experimental Validation
Lee, S.; Kang, K.; Joo, S.; Min, K.	Determination of Maximum Force Limit of Damping Devices Using Response Estimation Models
Li, K.; Darby, A.	Impact Dampers for Dynamic Structural Control

Session 1-17: Passive Control III: 13:00 – 14:30

Chair: Barbat, A.	Co-Chair: Reiterer, M.
Spina, G.; Ramundo, F.	Seismic Protection of Structures by MR dampers
De Iuliis, M.; Palazzo, B.; Petti, L.	Reduction Factors for Performance Based Seismic Design of Extra-Structural Damped Structures
Ye, L.; Jie, J.; Wu, W.; Yang, S.	Seismic Response Analysis for Energy Dissipation Structure Based on Energy Balance
Palazzo, B.; Petti, L.; De Iuliis, M.	A Passive Robust Control Strategy: Base Isolation and Tuned Mass Damping

Session 1-18: Semi -Active Control I: 14:45 – 16:15

Chair: Faravelli, L.	Co-Chair: Adam, C.
Temimi, H.; El-Borgi, S.; Choura, S.; Sadek, F.; Riley, M.	Time Delay Effects on Semi-active Control of Seismically Excited Nonlinear Structures
Medeot, R.; Braun, C.	New Challenges in Semi-active Systems for Structural Control Engineering - THE EC-Founded Projects 'SPACE' and 'VAST-IMAGE'
Li, H.; Chang, Z.; Wang, S.	Semi-Active Control for Eccentric Structures with MR Damper

Session 1-19: Semi -Active Control II: 16:45 – 18:15

Chair: Casciati, F.	Co-Chair: Adam, C.
Amini, F.; Tahernia, I.	Semi-Active Control of Coupled Building by Pole Assignment Method
Pasquino, M.; Brigante, M.; Fabbrocino, F.; Modano, M.	Stability Control Analysis of 1-DOF system
Reinhorn, A.; Sivaselvan, M.; Weinreber, S.; Shao, X.	A Novel Approach to Dynamic Force Control
Spizzuoco, M.; Occhiuzzi, A.; Serino, G.	A Semi-active MR Damper-Brace System's Control Law Applied to the Earthquake Benchmark Building

THURSDAY, JULY 15th:

ROOM: H5 second floor Sectional Keynote Lecture

Session 4-1: Assessment I: 10:15 – 11:45

Chair: Sextos, A.		Co-Chair: Lu, S.	
Ceravolo, R.; Demarie, G.; De Stefano, A.	Bell-Towers Monitoring from Ambient Vibration Measurements		
Lang, D.; Schwarz, J.; Abrahamczyk, L.; Schott, C.; Swain, T.	Instrumental Testing and Numerical Investigation of RC Frame Structures in Turkish Earthquake Regions		
Chen, X.; Zhu, H.; Chen, C.	Parametric Identification of Structure Using Dynamic and Static Response		
Wang, Y.; Wong, K.	Control of Structural Damage Due to Earthquakes Using a New Damage Assessment Model		
Ung Quoc, H.; Mounajed, G.	Development of a New Tangent Damage Model for Concrete in Symphonie F.E Code of CSTB. Application to Industrial Structures in Concrete.		

Session 3-2: Experimental Methods II: 13:00 – 14:30

Chair: Magonette, G.		Co-Chair: Lu, S.	
Silva, M.; Brasil, R.	Computation of RC Structures Large Displacements: Optimization Applied to Experimental Results		
Weber, B.; Paultre, P.; Proulx, J.	Damage Detection in a Two-Story Concrete Frame Building Considering Parameter Sensitivities with Respect to Measurement Errors		
Yang, T.; Chen, X.; Yue, Q.	Large Scale Model Experimental Research of Prestressed Concrete Containment of Nuclear Power Station Strengthened with Externally Wrapped Carbon Fiber Sheets		
Manea, I.; Budulan, P.	Experimental Modal Analysis Utilization in View of High Voltage Switching Equipment Assessments After Seism or Short-circuit Events		
Chen, Y.; Azzam, R.	Mechanism of Crack Extension in Sandstones under Creep Condition		

Session 4-3: Assessment III: 14:45 – 16:15

Chair: Lang, D.		Co-Chair: Lu, S.	
Psycharis, I.	Dynamic Response of a Part of the Temple of Olympios Zeus (Olympieion) in Athens, Greece, to Harmonic and Earthquake Excitations		
Saleh, A.; Zaghw, A.	Seismic Performance Evaluation of Two Historical Islamic Minarets Using the Capacity Spectrum Method		
Uckan, E.; Erdik, M.; Onem, G.	Seismic Evaluation and Retrofit Criteria of the Bolu Viaduct #1		
Falcao Silva, M.; Coelho, E.; Costa, A.	Overall assessment of reinforced concrete structures with energy devices		
Marmureanu, G.; Marmureanu, A.; Cioflan, C.; Balan, S.	Assessment of Vrancea Earthquake Risk in a Real / Nonlinear Seismology		

Session 3-3: Experimental Methods III: Shaking - Table – Tests: 16:45 – 18:15

Chair: Weber, B.		Co-Chair: Lu, S.	
Bairrao, R.; Queval, J.; Sollogoub, P.	Performance of the European Shaking Tables - First Tests with a New Non-Linear Specimen		
Serino, G.; Occhiuzzi, A.; Spizzuoco, M.	Shaking Table Tests on a Steel Building Prototype Equipped with Magnetorheological Dampers		
Chu, Y.; Chang, K.	Shaking Table Test Study on a Full-scale Steel Frame with Added Viscoelastic Dampers		
Tashkov, L.; Antimovski, A.; Kokalevski, M.	Shaking Table Test of 1/3 Scale Model Base Isolated by ALSC Sliding System		

THURSDAY, JULY 15th:

ROOM: H6 second floor Sectional Keynote Lecture

Session 6.1-3: Bridges III: 10:15 – 11:45

Chair: Occhiuzzi, A.		Co-Chair: Ralbovsky, M.	
Lehký, D.; Strauss, A.; Santa, U.; Novák, D.; Bergmeister, K.	Monitoring And Probabilistic Response Identification Of Concrete Bridges		
Radic, J.; Bleiziffer, J.	Programme for Monitoring Large Bridges at Croatian Adriatic Coast		
Kivi, E.; Kulbach, V.	Control of Dimensioning and Investigation of the Bridge for Crossing a Strait in Estonia		
Park, K.; Koh, H.; Ok, S.; Seo, C.	Seismic Response Control of Cable-stayed Bridges using Fuzzy Supervisory Control Technique		
Boutonnet, L.	Strengthening of Kingston Bridge in Glasgow		

Session 6.2-3: Buildings III: 13:00 – 14:30

Chair: Erdik, M.		Co-Chair: Ralbovsky, M.	
Cimellaro, G.; Marazzi, F.	Adjacent Coupled Building Structures Controlled using MR Dampers		
Cimellaro, G.; Lopez Garcia, D.	Random Seismic Response of Adjacent Building Structures Linked by Linear Connective Devices		
Avila, J.; Gutierrez, K.	Inelastic Seismic Behavior Comparison of a Reinforced Concrete 10 Level Structured Building Without and With Passive Energy Dissipators		
Jurukovski, D.; Rakicevic, Z.	Structural Retrofitting of a 6-Storey Hotel Building with HDRB and Viscous Dampers		
Kim, T.; Lee, D.	Analysis of Vibrations Induced by High Frequency Dynamic Loads in Floors		

Session 6.3-3: Different Structures III: 14:45 – 16:15

Chair: Dittrich, K.		Co-Chair: Ralbovsky, M.	
Le Cam, V.; Bourquin, F.; Cottineau, L.	A Wireless Sensor Network for Damage Detection and Health Monitoring of Cables		
Ciucci, M.; Paolacci, F.; Ludovisi, G.; Moccaldi, A.	Seismic Protection of Major-Hazard Industrial Installations by using Viscoelastic Devices		
Mrazek, T.; Belyaev, A.; Irschik, H.	Test-based Modeling of Hydraulic Shock Absorbers		
Fujita, T.; Hattori, T.; Suzuki, Y.; Yasuda, M.; Tsuchiya, M.	Passive Microvibration Control of Precision Machines Using Shunted Piezoceramics		
Holl, H.; Hammelmüller, F.; Irschik, H.	Vibration Control for a Coiling Process		

Session 6.1-4: Bridges IV: Steel- and Railway Bridges: 16:45 – 18:15

Chair: Dorka, U.		Co-Chair: Ralbovsky, M.	
Pratt, K.; Willford, M.; Hicyilmaz, K.	Dynamic Considerations in the Design of High-Speed Railway Bridges		
Mautner, M.	Serviceability Check for New Railway Bridges - Dynamic Measurements Carried out on the Steel Structure "Heugasse" Located in km 13.392 on the ÖBB - Southern Railway Line		
Van Bogaert, P. ; De Corte, W.	Static and Continuous Measuring on Steel Tied Arch Bridge Crossed by Lorries and Freight Trains		
Kang, S.; Koh, H.; Park, K.	Vibration Control and Fatigue Reliability Assessment of Steel-composite High-speed Railway Bridges		
Herter, J.	Assessment of the Remaining Fatigue Life of Existing Steel Bridges Based on Field Testing and Inspection Concepts		

THURSDAY, JULY 15th:

ROOM: H3 second floor Sectional Keynote Lecture

Session 5-6: Health Monitoring VI: 10:15 – 11:45

Chair: Peeters, B.	Co-Chair: Geier, R.
Lanata, F.; Del Grosso, A.	Damage Detection Algorithms for Continuous Static Monitoring: Review and Comparison
Kullaa, J.	Latent Variable Models to Eliminate the Environmental Effects in Structural Health Monitoring
Mehdianpour, M.; Peil, U.	Life Cycle Prediction of Steel Structures under Fatigue Loads by Means of Monitoring and Parallel Testing
Sen, R.; Mullins, G.; Suh, K.; Winters, D.	Long Term Corrosion Monitoring of Underwater FRP Wrapped Prestressed Piles
Kim, W.; Kim, S.; Lee, J.	A Damage Detection Technique of Composite Laminates with Embedded FBG Sensors

Session 4-2: Assessment II: 13:00 – 14:30

Chair: Marmureanu, G.	Co-Chair: Geier, R.
Syrmakezis, C.; Asteris, P.	Seismic Protection of Historical Structures and Monuments
Pichler, B.; Hellmich, C.; Mang, H.	Monitoring of Rockfall-endangered Oil Pipelines

Session 5-7: Health Monitoring VII: 14:45 – 16:15

Chair: Link, M.	Co-Chair: Geier, R.
Occhiuzzi, A.; Grasso, V.; Manfredi, G.	Early Warning Systems from a Structural Control Perspective
Vlad, I.; Vlad, M.	Health Monitoring of a Building During the Demolition of its Lateral Wings by Controlled Explosions
Strauss, A.; Bonfiglioli, B.; Bergmeister, K.; Pascale, G.	Monitoring Uncertainties regarding Carbonfibre Strengthening Elements
Volokhovskiy, V.; Vorontsov, A.; Kagan, A.; Sukhorukov, V.	Interpretation of Magnetic Wire Rope Inspection Data with regard to Structure Mechanics
Vaghi, A.; Ferrari, S.	Sensor Management for Landmine Detection by a Graphical Model Approach

Session 4-4: Assessment IV: Landslide Risk: 16:45 – 18:15

Chair: Pichler, B.	Co-Chair: Geier, R.
Pitilakis, K.; Sextos, A.	Implications of Site Effects and Soil-Structure-Interaction in Seismic Design
Haberler, M.	A Fuzzy System for the Analysis of Geodetic Landslide Monitoring Data
Tang, A.; Wu, Y.; Sun, X.; Zhao, Y.	A Geological Information System Based on Lifeline Earthquake Risk Assessment

THURSDAY, JULY 15th:

ROOM: H8 second floor Sectional Keynote Lecture

Mini – Symp. M5: Innovative Applications of Smart Technology: 10:15 – 11:45

Chair: Holnicki-Szulc, J.		Co-Chair: Krommer, M.	
Bekö, A.; Holnicki-Szulc, J.	Health Monitoring of Cable Systems		
Mikulowski, G.; Holnicki-Szulc, J.	Adaptive Aircraft Shock Absorbers		
Pawlowski, P.; Holnicki-Szulc, J.	Adaptive Structures under Extreme Loads - Impact Detection, Self-Adaptation, Self-Repairing		
Sims, N.; Zhang, Y.	Piezoelectric Active Control for Workpiece Chatter Reduction during Milling		
Kolari, K.; Heinonen, J.; Kärnä, T.	Mitigation of Dynamic Ice Actions on Offshore Wind Turbines		

Mini – Symp. M7: The European SAMCO Network: 13:00 – 14:30

Chair: Wenzel, H.		Co-Chair: Krommer, M.	
Wenzel, H.	SAMCO – A Network on Structural Assessment, Monitoring and Control		
Pardi, L.; Woodward, R.; Dumoulin, C.; Golterman, P.	The Role of Monitoring in Bridge Management		
Geier, R.; Hillgarter, N.; Flesch, R.	Quality Control in Structural Health Monitoring		
Feltrin, G.; Weber, F.	On the Relative Motion of Tuned Mass Dampers		

Mini – Symp.: M8 Fluid Power Actuators for Structural Control: 14:45 – 16:15

Chair: Scheidl, R.		Co-Chair: Krommer, M.	
Försterling, H.; Furtner, P.	Applications of Hydraulic Actuators for Damping and Isolation of Structural Oscillations		
Scheidl, R.	Fluid Power Actuators for Structural Control - an Overview		
Manhartsgruber, B.	Hydraulic Switching Techniques in Structural Control - Concepts and Potentials		
Gstöttenbauer, N.; Kainz, A.; Manhartsgruber, B.; Scheidl, R.	Experimental and Numerical Investigation of the Squeeze Mode of Magneto-Rheological Fluids		

Mini – Symp. M9: Control of Structures + Applications: 16:45 – 18:15

Chair: Schlacher, K.		Co-Chair: Krommer, M.	
Rudolph, J.; Woittennek, F.	Motion Planning for Simple Elastic Structures		
Holl, J.; Schlacher, K.; Keintzel, G.	Active Rejection of Chatter-Vibrations in Steel Rolling Mills		
Kugi, A.; Kemmetmüller, W.	Nonlinear Control in Electrorheological Fluid Devices		
Ennsbrunner, H.; Schlacher, K.	Vibration Control of a Flexible Structure consisting of a Car and a Beam with Tip Mass		

