

## Technical Programme

| Tuesday, July 13 <sup>th</sup> |                                  |                |                |                |                        |
|--------------------------------|----------------------------------|----------------|----------------|----------------|------------------------|
| 7:30                           | Start Registration               |                |                |                |                        |
| 08:30-09:00                    | <b>Opening Session</b> Room H1   |                |                |                |                        |
| 09:00-09:45                    | <b>Plenary Lecture 1</b> Room H1 |                |                |                |                        |
| 09:45 - 10:15 Coffee Break     |                                  |                |                |                |                        |
|                                | <b>Contributed Sessions</b>      |                |                |                | <b>Mini – Symposia</b> |
|                                | <b>Room H1</b>                   | <b>Room H5</b> | <b>Room H6</b> | <b>Room H3</b> | <b>Room H8</b>         |
| 10:15 – 11:45                  | 1-1                              | 1-2            | 2-1            | 6.1-1          | M6-1                   |
| 11.45 - 13:00 Lunch            |                                  |                |                |                |                        |
| 13:00 – 14:30                  | 1-3                              | 1-4            | 2-2            | 5-1            | M6-2                   |
| 14:30 - 14:45 Break            |                                  |                |                |                |                        |
| 14:45 – 16:15                  | 1-5                              | 1-6            | 2-3            | 6.2-1          | M2                     |
| 16:15 - 16:45 Coffee Break     |                                  |                |                |                |                        |
| 16:45 – 18:15                  | 1-7                              | 1-8            | 2-4            | 5-2            | M4                     |

| Wednesday, July 14 <sup>th</sup> |                                  |                |                |                |                        |
|----------------------------------|----------------------------------|----------------|----------------|----------------|------------------------|
| 08:00                            | Start Registration               |                |                |                |                        |
| 09:00-09:45                      | <b>Plenary Lecture 2</b> Room H1 |                |                |                |                        |
| 09:45 - 10:15 Coffee Break       |                                  |                |                |                |                        |
|                                  | <b>Contributed Sessions</b>      |                |                |                | <b>Mini – Symposia</b> |
|                                  | <b>Room H1</b>                   | <b>Room H5</b> | <b>Room H6</b> | <b>Room H3</b> | <b>Room H8</b>         |
| 10:15 – 11:45                    | 1-9                              | 1-10           |                | 6.3-1          | M1-1                   |
| 11.45 - 13:00 Lunch              |                                  |                |                |                |                        |
| 13:00 – 14:30                    | 1-11                             | 1-12           | 6.1-2          | 5-3            | M1-2                   |
| 14:30 - 14:45 Break              |                                  |                |                |                |                        |
| 14:45 – 16:15                    | 1-13                             | 1-14           | 6.2-2          | 5-4            | M3-1                   |
| 16:15 - 16:45 Coffee Break       |                                  |                |                |                |                        |
| 16:45 – 18:15                    | 1-15                             | 3-1            | 6.3-2          | 5-5            | M3-2                   |

| Thursday, July 15 <sup>th</sup> |                                  |                |                |                |                        |
|---------------------------------|----------------------------------|----------------|----------------|----------------|------------------------|
| 07:30                           | Start Registration               |                |                |                |                        |
| 08:15-09:00                     | <b>Plenary Lecture 3</b> Room H1 |                |                |                |                        |
| 09:00-09:45                     | <b>Plenary Lecture 4</b> Room H1 |                |                |                |                        |
| 09:45 - 10:15 Coffee Break      |                                  |                |                |                |                        |
|                                 | <b>Contributed Sessions</b>      |                |                |                | <b>Mini – Symposia</b> |
|                                 | <b>Room H1</b>                   | <b>Room H5</b> | <b>Room H6</b> | <b>Room H3</b> | <b>Room H8</b>         |
| 10:15 – 11:45                   | 1-16                             | 4-1            | 6.1-3          | 5-6            | M5                     |
| 11.45 - 13:00 Lunch             |                                  |                |                |                |                        |
| 13:00 – 14:30                   | 1-17                             | 3-2            | 6.2-3          | 4-2            | M7                     |
| 14:30 - 14:45 Break             |                                  |                |                |                |                        |
| 14:45 – 16:15                   | 1-18                             | 4-3            | 6.3-3          | 5-7            | M8                     |
| 16:15 - 16:45 Coffee Break      |                                  |                |                |                |                        |
| 16:45 – 18:15                   | 1-19                             | 3-3            | 6.1-4          | 4-4            | M9                     |

### Contributed Sessions

1. Structural Dynamics and Control
2. Smart Materials for Structural Control
3. Experimental Methods for Structural Control
4. Assessment of Dynamic Parameters
5. Health Monitoring
6. Special Applications (6.1 Bridges, 6.2 Buildings, 6.3 Others)

### Mini – Symposia

- M1: Cultural Heritage Preservation (F. Caciati)
- M2: Towards Enhancing Structural Integrity (C. Eberst)
- M3: Sensor Technology Toward Structural Control (L. Faravelli)
- M4: In-Situ Assessment of Important Buildings and Infrastructure (R. Flesch)
- M5: Innovative Applications of Smart Technology (J. Holnicki-Sculz)
- M6: Earthquake Mitigation via Control Algorithms
- M7: The European SAMCO Network (H. Wenzel)
- M8: Fluid Power Actuators for Structural Control (R. Scheidl)
- M9: Control of Structures + Applications (K. Schlacher)

| Tuesday, July 13 <sup>th</sup> |  |                                  |  |   |   |
|--------------------------------|--|----------------------------------|--|---|---|
| 7:30                           | Start Registration first floor                           |                                  |  |   |   |
| 08:30-09:00                    | <b>Opening Session</b> Room H1 first / second floor      |                                  |  |   |   |
| 09:00-09:45                    | <b>Plenary Lecture 1</b> Room H1 first / second floor    |                                  |  |   |   |
| 09:45 - 10:15 Coffee Break     |  |                                  |  |   |   |
|                                | <b>Contributed Sessions</b>                              |                                  |  |   | <b>Mini – Symposia</b>  |
|                                | <b>Room H1</b><br>first / second floor                   | <b>Room H5</b><br>second floor   | <b>Room H6</b><br>second floor           | <b>Room H3</b><br>second floor                    | <b>Room H8</b><br>second floor  |
| 10:15 – 11:45                  | <b>1-1</b><br>Modelling, Design and Dynamic Analysis I   | <b>1-2</b><br>Active Control I   | <b>2-1</b><br>Piezoelectric Materials    | <b>6.1-1</b><br>Bridges I: Cable - Stayed Bridges | <b>M6-1</b><br>Earthquake Mitigation via Control Algorithms - Experiment & Applications |
| 11.45 - 13:00 Lunch            |  |                                  |  |   |   |
| 13:00 – 14:30                  | <b>1-3</b><br>Modelling, Design and Dynamic Analysis II  | <b>1-4</b><br>Active Control II  | <b>2-2</b><br>Shape Memory Alloys        | <b>5-1</b><br>Health Monitoring I                 | <b>M6-2</b><br>Earthquake Mitigation via Control Algorithms - Theory                    |
| 14:30 - 14:45 Break            |  |                                  |  |   |   |
| 14:45 – 16:15                  | <b>1-5</b><br>Modelling, Design and Dynamic Analysis III | <b>1-6</b><br>Active Control III | <b>2-3</b><br>Magneto-rheological Fluids | <b>6.2-1</b><br>Buildings I                       | <b>M2</b><br>Towards Enhancing Structural Integrity                                     |
| 16:15 - 16:45 Coffee Break     |  |                                  |  |   |   |
| 16:45 – 18:15                  | <b>1-7</b><br>Modelling, Design and Dynamic Analysis IV  | <b>1-8</b><br>Active Control IV  | <b>2-4</b><br>New Developments           | <b>5-2</b><br>Health Monitoring II: Bridges       | <b>M4</b><br>In-situ Assessment of Important Buildings and Infrastructure               |

**TUESDAY, JULY 13<sup>th</sup>:**

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

**Plenary Lecture 1: 09:00 – 09:45**

|  |  |
|--|--|
| <b>Chair: Casciati, F.</b>                               | <b>Co-Chair: Brandl, A.</b>  |
| <b>Speaker: Librescu, L.<br/>Co-Author: Marzocca, P.</b> | <b>Advances in the Linear/ Nonlinear Control of Aeroelastic Structural Systems</b> |

**Session 1-1: Modelling, Design and Dynamic Analysis I: 10:15 – 11:45**

|                              |  |
|------------------------------|--|
| <b>Chair: Belyaev, A.</b>    | <b>Co-Chair: Holl, H.</b>  |
| Watanabe, K.                 | Wave Propagation in Cylindrically Anisotropic and Inhomogeneous Elastic Solids                           |
| Indeitsev, D.; Mochalova, Y. | Dynamic Effects Accompanying Diffusional Homogenization in Thin Films                                    |
| Polyansky, V.                | Interaction of a low-frequency mechanical system with a high-frequency electric drive                    |
| Aero, E.                     | Dynamic Problems of the Nonlinear Micromechanics for Media with Irreversibly Modified Discrete Structure |

**Session 1-3: Modelling, Design and Dynamic Analysis II: 13:00 – 14:30**

|   |  |
|---|--|
| <b>Chair: Ziegler, F.</b>                             | <b>Co-Chair: Holl, H.</b>  |
| Lerch, R.; Kaltenbacher, M.; Landes, H.               | Numerical Methods in Electromechanical Coupled Field Problems                    |
| Corbi, O.; Baratta, A.                                | Treatment of Mechanical Non-Linearities in Dynamic Structures                    |
| Ramos, L.; Barros, R.                                 | Non-Linear Formulation and Algorithmic Implementation of Tuned Mass Dampers      |
| Dibold, M.; Gerstmayr, J.; Irschik, H.; Stadlmayr, R. | Dynamics of Multibody Systems Including Hydraulic Actuators and Feedback Control |

**Session 1-5: Modelling, Design and Dynamic Analysis III: 14:45 – 16:15**

|  |  |
|--|--|
| <b>Chair: Watanabe, K.</b>                             | <b>Co-Chair: Hammelmüller, F.</b>  |
| Sankhla, P.; Mehra, V.                                 | Dynamic Analysis and Behaviour of Infilled Frames under Seismic Loading  |
| Limongelli, M.   | Response Prediction of Multi-storey Buildings Using a Spline-based Reconstructor                               |
| Uckan, E.; Erdik, M.; Mortaja, W.; Tuzun, C.; Onem, G. | Earthquake Response of a Three Story Steel Structure Seismically Isolated by FPS Type Sliding Isolation System |
| Wallace, M.; Wagg, D.; Neild, S.                       | Use of Control Techniques for Error Analysis of Real Time Dynamic Substructure Testing                         |
| Baratta, A.; Corbi, I.                                 | Modelling of Seismic Propagation by Mechanical Patterns  |

**Session 1-7: Modelling, Design and Dynamic Analysis IV: 16:45 – 18:15**

|   |   |
|---|---|
| <b>Chair: Adam, C.</b>                                  | <b>Co-Chair: Hammelmüller, F.</b>   |
| Mofid, M.; Zarfam, P.; Raissi Fard, B.                  | Modal Incremental Non-linear Seismic Analysis   |
| Rosko, P.   | Dynamic Response Control of Truss Structure   |
| Kowalewsky, O.; Knap, J.; Ortiz, M.                     | Complex Lattice Quasicontinuum Theory and Its Application to Ferroelectrics                           |
| Saimoto, A.; Imai, Y.; Nisitani, H.                     | Simulation of Compressive Fracture of Brittle Solids with Multiple Cracks                             |
| Norman, J.; Virden, D.; Crewe, A.; Wagg, D.; Severn, R. | Multiple Support Excitation of a Single Degree of Freedom Experiment: Control Methodology and Testing |

**TUESDAY, JULY 13<sup>th</sup>:**

**ROOM: H5 second floor**  Sectional Keynote Lecture

**Session 1-2: Active Control I: 10:15 – 11:45**

|  |  |                                 |  |
|--|--|---------------------------------|--|
| <b>Chair: Schlacher, K.</b>                    |  | <b>Co-Chair: Stadlmayer, R.</b> |  |
| Preumont, A.                                   | Active Damping and Active Isolation of Large Space Structures  |                                 |  |
| Nestorovic-Trajkov, T.; Köppe, H.; Gabbert, U. | Active Control of Flexible Structures using Piezoelectric Actuators and Sensors with an Application to a Funnel-Shaped Structure |                                 |  |
| Wong, K.; Wang, Y.                             | Active Control of Seismically-Excited Inelastic Structures Based on Energy Density Spectra                                       |                                 |  |
| Domaneschi, M.; Casciati, F.; Faravelli, L.    | Active Control Schemes for Managing Nonlinear Passive Devices  |                                 |  |

**Session 1-4: Active Control II: 13:00 – 14:30**

|   |  |                                 |  |
|---|--|---------------------------------|--|
| <b>Chair: Preumont, A.</b>                |  | <b>Co-Chair: Stadlmayer, R.</b> |  |
| Kugi, A.                                  | Infinite-dimensional Control of Piezoelectric Structures                               |                                 |  |
| Eisenberg, J.; Smirnov, V.; Vasilyeva, A. | Structural Control and Seismoisolation in Russia. Recent Developments and Applications |                                 |  |

**Session 1-6: Active Control III: 14:45 – 16:15**

|   |   |                                 |  |
|---|---|---------------------------------|--|
| <b>Chair: Gabbert, U.</b>                       |   | <b>Co-Chair: Stadlmayer, R.</b> |  |
| Collet, M.; Monnier, P.                         | Definition of the Mechanical Design Parameters to Optimize Efficiency of Integral Force Feedback Active Damping Strategy  |                                 |  |
| Abdelaziz, T.; Valasek, M.                      | Eigenstructure Assignment by Derivative-plus-Acceleration Feedback For Second-order Linear Time-Invariant Control Systems |                                 |  |
| Przychodzki, M.; Lewandowski, R.                | The Application of the Acceleration Feedback in Semi-active and Active Control of Building Structures.                    |                                 |  |
| Luo, N.; Villamizar, R.; Vehí, J.; Rodellar, J. | Vibration Attenuation of Uncertain Structures by using Quantitative Feedback Theory                                       |                                 |  |
| Shooshtari, M.                                  | Parametric Investigation of Concrete Structures with Active Seismic Control   |                                 |  |

**Session 1-8: Active Control IV: 16:45 – 18:15**

|  |   |                                 |  |
|--|---|---------------------------------|--|
| <b>Chair: Kugi, A.</b>                 |   | <b>Co-Chair: Stadlmayer, R.</b> |  |
| Moutinho, C.; Cunha, A.; Caetano, E.   | Implementation of an Active Mass Damper For Seismic Vibration Control of a Plane Frame Physical Model |                                 |  |
| Bourquin, F.; Branchet, B.; Collet, M. | Numerical Robustness of IFF, DVF and Fast Control Algorithms with Respect to Actuator Dynamics        |                                 |  |
| Adam, B.; Smith, I.                    | Serviceability Control of an Intelligent Tensegrity Structure   |                                 |  |
| Paulet-Crainiceanu, F.; Rodellar, J.   | Solution for Structural Control of a Bridge Benchmark, Phase II                                       |                                 |  |
| Chen, Y.; Ko, C.                       | Dynamic Characteristic of a Propeller-Controlled ATLCD  |                                 |  |

**TUESDAY, JULY 13<sup>th</sup>:****ROOM: H6** second floor  Sectional Keynote Lecture**Session 2-1: Piezoelectric Materials: 10:15 – 11:45**

| <b>Chair: Krommer, M.</b>                               |   | <b>Co-Chair: Nader, M.</b> |  |
|---|---|----------------------------|--|
| Tanigawa, Y.; Ootao, Y.                                 | Transient Piezothermoelastic Problems of Smart Composite Structures Bonded to a Piezoelectric Layer |                            |  |
| Zehetner, C.; Irschik, H.                               | Influence of Piezoelectric Actuation on the Dynamic Stability of Simply Supported Smart Beams       |                            |  |
| Arockia-Rajan, A.; Delibas, B.; Menzel, A.; Seemann, W. | Simulation of Nonlinear Behavior of Piezoceramic Materials Using Probability Functions              |                            |  |
| Pietrzakowski, M.                                       | Vibration Control of Laminated Plates via Skewed Piezocomposite Layers                              |                            |  |

**Session 2-2: Shape Memory Alloys: 13:00 – 14:30**

| <b>Chair: Tanigawa, Y.</b>                       |   | <b>Co-Chair: Nader, M.</b> |  |
|--|---|----------------------------|--|
| Oberaigner, E.; Fischer, F.                      | Phase Transformation Induced Damping of Shock Waves in a Shape Memory Alloy (SMA) Rod Subjected to a High Energy Impact |                            |  |
| Isalgue, A.; Martorell, F.; Torra, V.; Lovey, F. | Building Dampers by SMA CuAlBe: Long Time Guarantee and Conditioning Treatments   |                            |  |
| Soda, S.   | Passive and Semi-active Origin-restoring Dampers for Seismic Response Control of Building Structures                    |                            |  |

**Session 2-3: Magnetorheological Fluids: 14:45 – 16:15**

| <b>Chair: Sen, R.</b>                    |  | <b>Co-Chair: Mrazek, T.</b> |  |
|--|--|-----------------------------|--|
| Pinelli, J.; Gutierrez, H.; Harrigan, G. | Controlling Seismic Vibrations with Magneto-Rheological Tuned Mass Dampers |                             |  |
| Weber, F.; Feltrin, G.; Motavalli, M.    | Damping Potential of Controlled MR Dampers                                 |                             |  |
| Cho, S.; Lee, H.; Kim, C.; Lee, I.       | Smart Passive System Based on MR Damper                                    |                             |  |
| Colwell, S.; Basu, B.                    | The Orifice Damping Properties of Magnetorheological Fluids                |                             |  |

**Session 2-4: New Developments: 16:45 – 18:15**

| <b>Chair: Oberaigner, E.</b>                         |   | <b>Co-Chair: Mrazek, T.</b> |  |
|--|---|-----------------------------|--|
| Friedmann, H.; Henkel, F.; Gurka, M.; Petricevic, R. | New Developments on Smart Materials with Sensor and Actuator Abilities and their Applications   |                             |  |
| Tsopelas, P.; Nerbun, D.                             | A Cellular Material-Base Damper for Seismic Response Reduction of Structural Systems  |                             |  |
| Brocato, M.  | A New ER Damper. Theory Overview and Experiments  |                             |  |
| Zonta, D.; Zanon, P.; Pozzi, M.                      | Development of a FBG-based Dynamic Measurement System for the Real-time Monitoring of RC Elements: Experimental Application to a Smart Beam Specimen. |                             |  |

**TUESDAY, JULY 13<sup>th</sup>:**

**ROOM: H3 second floor**  Sectional Keynote Lecture

**Session 6.1-1: Bridges I: Cable - Stayed Bridges: 10:15 – 11:45**

|                                     |   |                         |  |
|-------------------------------------|---|-------------------------|--|
| <b>Chair: Wenzel, H.</b>            |   | <b>Co-Chair: Lu, S.</b> |  |
| Geier, R.                           | Condition Monitoring of Stay Cables                         |                         |  |
| Marazzi, F.; Magonette, G.          | Cable-stayed Bridge Control: Strategies and Implementations |                         |  |
| Xiang, Y.; Weng, S.                 | Study on Cable Tension Optimization of Cable Stayed Bridge  |                         |  |
| Park, K.; Jung, H.; Oh, J.; Lee, I. | Robust Hybrid Control of a Cable-Stayed Bridge              |                         |  |

**Session 5-1: Health Monitoring I: 13:00 – 14:30**

|   |  |                         |  |
|---|--|-------------------------|--|
| <b>Chair: Niemeier, W.</b>                          |  | <b>Co-Chair: Lu, S.</b> |  |
| Aktan, E.; Grimmelman, K.; Ciloglu, K.              | Evaluation of Structural Health Monitoring Techniques for Damage Assessment through a Benchmark Physical Model |                         |  |
| Vestroni, F.; Cerri, M.; Vidoli, S.; dell'Isola, F. | Structural Health Monitoring Based on Measurements of Dynamic Response   |                         |  |
| Santa, U.; Bergmeister, K.; Strauss, A.             | Structural Monitoring - Experiences and Results  |                         |  |

**Session 6.2-1: Buildings I: 14:45 – 16:15**

|                                 |   |                             |  |
|---------------------------------|---|-----------------------------|--|
| <b>Chair: Martelli, A.</b>      |   | <b>Co-Chair: Handel, C.</b> |  |
| Rakicevic, Z.; Jurukovski, D.   | Effectiveness of Viscous Damping in Controlling of Storey Displacement  |                             |  |
| Mata, P.; Barbat, A.; Oller, S. | Improvement of the Seismic Behaviour of Precast Concrete Structures by Means of Energy Dissipating Devices.                   |                             |  |
| Lee, D.; Kim, H.; Lee, S.       | Efficient Vibration Analysis for Floors in A Shear Wall Building Structure  |                             |  |
| Mentes, G.                      | Investigation of the deformations and movements of the TV tower in Sopron influenced by weather variations and ground motions |                             |  |
| Anarkulov, N.; Begaliev, U.     | Seismic Isolation Systems in Kyrgyzstan   |                             |  |

**Session 5-2: Health Monitoring II: Bridges: 16:45 – 18:15**

|   |  |                             |  |
|---|--|-----------------------------|--|
| <b>Chair: Strauss, A.</b>   |  | <b>Co-Chair: Handel, C.</b> |  |
| Niemeier, W.  | Four Years of Monitoring of an Old Bridge with Continuous Geodetic Measurements and Data Processing using Artificial Neural Networks |                             |  |
| Hillemeier, B.; Scheel, H.  | Fast Location of Prestressing Steel Fractures in Parkinglots and Bridge Decks  |                             |  |
| De Corte, W.; Van Bogaert, P.                                       | Fatigue Assessment of Orthotropic Bridge Decks through High-frequency Strain Gauge Measurements                                      |                             |  |
| Kister, G.; Winter, D.; Badcock, R.; Fernando, G.; Gebremichael, Y. | Structural Health Monitoring of an All-composite Bridge using Bragg Grating Sensors  |                             |  |

**TUESDAY, JULY 13<sup>th</sup>:**

**ROOM: H8** second floor  Sectional Keynote Lecture

**Mini – Symp. M6-1: Earthquake Mitigation via Control Algorithms - Experiment & Applications:**  
10:15 – 11:45

|   |  |                                 |  |
|---|--|---------------------------------|--|
| <b>Chair: Melkumyan, M.; Syrmakezis, C.</b> |  | <b>Co-Chair: Gusenbauer, M.</b> |  |
| Casciati, F.; Dusi, A.; Manzoni, E.         | Seismic Risk Mitigation for Schools and Hospitals: Some Recent Italian Experiences           |                                 |  |
| Syrmakezis, C.; Papaevangeliou, P.          | Earthquake Resistant Design of Hospital and School Buildings                                 |                                 |  |
| Melkumyan, M.                               | First Application of the Dynamic Damper in the Design of Seismically Isolated Dwelling House |                                 |  |
| Soldatova, L.; Tentiev, J.; Bogatenkov, S.  | Active Seismic Protection System for Buildings with Bearing Walls                            |                                 |  |

**Mini – Symp. M6-2: Earthquake Mitigation via Control Algorithms – Theory: 13:00 – 14:30**

|   |   |                                 |  |
|---|---|---------------------------------|--|
| <b>Chair: Kovaleva, A.; Volkov, A.</b>      |   | <b>Co-Chair: Gusenbauer, M.</b> |  |
| Volkov, A.; Belyaev, S.; Evard, M.          | Simulation of a Feedback Control of Low-frequency Vibrations by an Active Shape Memory Element            |                                 |  |
| Aghalovyan, L.; Gevorkyan, R.; Sahakyan, A. | Optimization of the Resistance of Base-foundation Packet of Constructions under Seismic and Force Actions |                                 |  |
| Aghalovyan, L.; Aghalovyan, M.              | On Forced Vibrations of Beams under Seismic and Force Actions at Presence of Viscous Resistance           |                                 |  |
| Kovaleva, A.                                | Control of Random Rocking Dynamics of Block Structures  |                                 |  |

**Mini – Symp. M2: Towards Enhancing Structural Integrity: 14:45 – 16:15**

|   |  |                              |  |
|---|--|------------------------------|--|
| <b>Chair: Eberst, C.</b>                |  | <b>Co-Chair: Krommer, M.</b> |  |
| Kugi, A.; Thull, D.; Seidel, H.         | Design Optimization for MEMS: A Case Study   |                              |  |
| Irschik, H.                             | Distributed Strain Sensors for Measuring Structural Entities such as Relative Displacements, Slopes or Hinge Rotations: 3D-Formulation and Application to Piezoelectric Beam Sensing |                              |  |
| Casciati, F.; Faravelli, L.; Rossi, R.  | Fuzzy Controllers for Structural Integrity   |                              |  |
| Schlacher, K.; Ennsbrunner, H.          | Geometric Spatial Discretization for Piezoelectric Structures  |                              |  |
| Gusenbauer, M.; Irschik, H.; Eberst, C. | Stress Suppression by Smart Material Actuation   |                              |  |

**Mini. Symp. M4: In-situ Assessment of Important Buildings and Infrastructure: 16:45 – 18:15**

|  |   |                              |  |
|--|---|------------------------------|--|
| <b>Chair: Flesch, R.</b>                       |   | <b>Co-Chair: Krommer, M.</b> |  |
| Flesch, R.                                     | In-situ Assessment of Important Buildings and Infrastructure - Background   |                              |  |
| Hoffmeister, B.                                | Assessment of the Impact of Existing Structures on the Planning and Design of New Industrial Facilities in Moderate Seismic Regions |                              |  |
| Lu, S.; Ralbovsky, M.; Köllner, W.; Flesch, R. | Assessment of Lifeline Structures in the Case of Hospitals in Seismic Zones 3 and 4 in Austria                                      |                              |  |
| Ralbovsky, M.; Köllner, W.; Geier, R.          | Recent Activities of Arsenal Research in the Field of in-situ Assessment  |                              |  |
| Deix, S.                                       | Updating FE-Models from Experimental Modal Analysis for Damage Detection in Civil Structures (Bridges)                              |                              |  |

