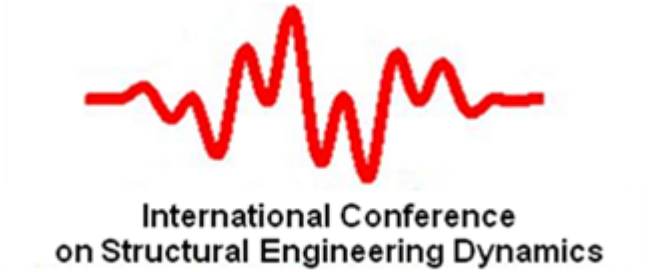
ICEDyn 2019



Viana do Castelo, Portugal, June 24-26, 2019

TECHNICAL PROGRAMME

Monday, June 24th, Morning

08:30	Late Registration		
09:15	Opening Session		
09:40	*Keynote Lecture # 01 – The Potential for Obtaining Scaled Separated Forcing Functions and Scaled Transfer Functions from Operational Response Vibrations, in Particular of Rotating Machines* Randall, R. B.[1], Antoni, J.[2], Borghesani, P.[1] [1]University of New South Wale, Sydney, Australia [2]University of Lyon, INSA-Lyon, Villeurbanne, France Chair: Bucher, I., Dynamics Laboratory, Mech. Eng., Technion, Haifa, Israel		
10:30	Coffee Break		
	Room A - Session 1A Rotating Machinery I Chair: Randall, R., University of New South Wales, Australia	Room B - Session 1B Special Session: Damage/SHM (Developed by Araújo dos Santos, J., Moreno-Garcia, P., Lopes, H.) Chair: Araújo dos Santos, J.V., Instituto Superior Técnico, Portugal	Room C – Session 1C Analytical Methods Chair: Awrejcewicz, J.· Lodz University of Technology, Poland
11:00	*037 Modal Reduction Technique for an On-Board Rotor-Bearing System with Time-Varying Parameters* Briend, Y.[1], Dakel, M.[1], Chatelet, E.[1], Dufour, R.[1], Andrianoely, M. A.[1], Baudin, S.[2] [1] Univ. Lyon, INSA-Lyon, CNRS UMR5259, LaMCoS, France [2] AVNIR Engineering, Paris, France	*010 Hybrid Faults Separation and Diagnosis of Gear Transmission based on Sparse Decomposition* He, G., Zeng, Z. Ding, K., Li, W. School of Mech. and Automotive Eng., South China Univ. of Technology, Guangzhou, P. R. China	*046 Torsional Vibration Analysis of the Crankshaft of Reciprocating Compressors Driven by Electric Motors* Morillo, A. H. V., Kurka, P. R. G., Bittencourt, M. L. School of Mech. Eng., University of Campinas, Brazil
11:20	*060 Kriging Surrogate Models Dedicated to the Cylindrical Journal Bearing of a Francis Hydropower Unit* Barbosa, J. S.[1], Sicchieri, L. C.[1], Dourado, A. P.[2], Cavalini Jr., A. A.[1], Steffen Jr., V.[1] [1] LMEst, Fedederal University of Uberlândia, Brazil [2] University of Central Florida, Orlando, USA	*013 Structural Monitoring for Damage Identification of Alcide De Gasperi School of Norcia* Argento, G. R.[1], Spina, D.[2], Acunzo, G.[3], Gabriele, S.[1] [1] DARC, Dept. of Architecture, Univ. Roma Tre, Italy [2] DPC, Dept. of Civil Protection, Rome, Italy [3] DMF, Dept. of Math. and Physics, Univ. Roma Tre, Italy	*078 Non-Conservative Dynamical Systems under Asynchronous Parametric Excitation* Karev, A., Hagedorn, P. Technical University of Darmstadt, Germany
11:40	*061 Detection of Bearing Faults Without Knowledge of the Characteristic Frequency using Envelope Sparsity-Based Blind Filtering* Peeters, C.[1], Guillaume, P.[1], Antoni, J.[2], Helsen, J.[1] [1] Free University of Brussels, Belgium [2] LVA, INSA-Lyon, Villeurbanne, France	*017 Order Analysis for Rotating Shafts using Displacement-Sensitive Fringe Pattern* Zhong, J.[1], Zhong, S.[1], Maia, N. M. M.[2] [1] Laboratory of Optics, Terahertz and Non-destructive Testing School of Mech. Eng. & Automation, Fuzhou. Univ., P. R. China [2] IDMEC, Instituto Superior Técnico, Univ. of Lisbon, Portugal	*126 Determination and Identification of Dispersion Curves for GLARE Composites with the use of Stiffness Matrix Method* Barski, M., Stawiarski, A., Chwał, M. , Muc, A. Inst. of Machine Design, Cracow Univ. of Technology, Poland
12:00		*022 Detection and Classification of Structural Changes using T-Distributed Stochastic Neighbor Embedding* Agis, D., Pozo, F. CoDAlab, Dept. of Maths, School of Eng. of Barcelona, Polytechnic Univ. of Catalunha, Barcelona, Spain	*127 Optimal Configuration of Cylindrical Laminated Shells Subjected to Flutter Constraint* Muc, A., Augustyn, M., Barski, M., Chwał, M., Stawiarski, A. Inst. of Machine Design, Cracow Univ. of Technology, Poland
12:30	Lunch		

Monday, June 24th, Afternoon

14:00	*Keynote Lecture #02* – Unmanned Air Systems: a Tool in the Evaluation of an Aeroservoelastic Flight Test Demonstrator Bras, M.[1], Mocho, N.[2], Richards, J.[1], Warwick, S.[1], Moreira, F.[3], Marra, J.[3], Meinicke, A.[3], Pedras, M.[3], Melo, O.[3], Suleman, A.[1] [1]University of Victoria, Victoria BC, Canada [2]Instituto Superior Técnico, University of Lisbon, Portugal [3]Embraer S.A., São José dos Campos, São Paulo, Brazil Chair: Rade, D. Technological Institute of Aeronautics, Brazil		
	Room A - Session 2A Aeronautical/Aerospace Topics I Chair: Souza, L.C.G., Federal Univ. of ABC, Santo André, Brazil	Room B - Session 2B Special Session: Damage/SHM (cont.) (Developed by Araújo dos Santos, J., Moreno-Garcia, P., Lopes, H.) Chair: Moreno-Garcia, P., University of Cádiz, Spain	Room C - Session 2C Active Control I Chair: Mottershead, J. E., University of Liverpool, UK
14:50	*011 Shock Propagation Prediction using Statistical Energy Analysis* Raynal, E.[1], Schmisser, R.[1], Peltier, L.[2] [1]CNES, Centre National d'Etudes Spatiales, Toulouse, France [2]SIGMA Clermont, Aubière, France	*035 Generating and using Limit Cycles for the purposes of Damage Detection: the SDOF Case* Memarzadeh, E., Bernal, D. Northeastern University, Boston MA, USA	*021 Modified Acceleration Feedback for Structural Control Using Experimental Data* Stancioiu, D., Sievert, L., Matthews, C., Rothwell, G., Jenkinson, I. Liverpool John Mores University, UK
15:10	*027 Fast Model Predictive Control Scheme for Attitude Control Systems of Rigid-Flexible Satellite* Murilo, A.[1], Peixoto, P. J. D.[1], Souza, L. C. G.[2], Lopes, R. V.[1] [1] University of Brasília, Brazil [2] Federal University of ABC, Santo André, Brazil	*059 The Relation Among Position of Damage and Magnitudes of Damage Indicators based on Mode Shape Derivatives* Moreno-García, P.[1], Araújo dos Santos, J. V.[2], Lopes, H.[3] [1] University of Cádiz, Spain [2] IDMEC, Instituto Superior Técnico, Univ. of Lisbon, Portugal [3] DEM-ISEP, Polytechnic Institute of Porto, Portugal	*051 Experimental Partial Feedback Linearisation: Comparison Between Two Active Control Strategies on a Non-Smooth Nonlinear System* Lisitano, D.[1], Jiffri, S.[2], Bonisoli, E.[1], Mottershead, J. E.[3] [1] Politecnico di Torino, Italy [2] Swansea University, UK. [3] University of Liverpool, UK
15:30	*002 H∞ Control Design for a Rigid-Flexible Spacecraft under a Fuel Slosh Influence* Souza, A. G.[1], Souza, L. C. G.[2] [1] Techn. Inst. of Aeronautics, São José dos Campos, Brazil [2] Federal University of ABC, Santo André, Brazil	*108 Multiple Crack Detection in Beams using the Modal Strain Energy Distribution* Gillich, G. R.[1], Tufisi, C.[1], Maia, N. M. M.[2], Aman, A. T.[1], Korka, Z. I.[1] [1] "Eftimie Murgu" University of Resita, Romania [2] IDMEC, Instituto Superior Técnico, Univ. of Lisbon, Portugal	*068 Minimum Norm Controller For Partial Pole Placement using the Multi-Input Multi-Output Receptance Method* Mokrani, B.[1], Batou, A.[1], Fichera, S.[1], Adamson, L.[1], Alaluf, D.[2], Mottershead, J. E.[1] [1] University of Liverpool, UK [2] European Space Agency, Noordwijk, The Netherlands
15:50	Coffee Break		

Monday, June 24th, Afternoon (Cont.)

	Room A - Session 3A Aeronautical/Aerospace Topics II Chair: Suleman, A., Center for Aerospace Research, Victoria, Canada	Room B - Session 3B Experimental Techniques Chair: Moreira, R. A. S., University of Aveiro, Portugal	Room C - Session 3C Updating Chair: Silva, T. A. N., Universidade Nova de Lisboa, *Portugal*
16:20	*110 Towards a Direct Field Environmental Acoustic Testing Digital Twin: simulation-based Pre-Test Analysis to Optimize a MIMO Random Control Strategy* Matas, E.[1], Álvarez Blanco, M.[1,2], Hallez, R.[1], Janssens, K.[1] [1] Siemens Industry Software NV, Leuven, Belgium [2] Dept. of Mech. Eng., KU Leuven, Heverlee, Belgium	*039 Experimental Studies of Laminated Plated Structures with Internal Delaminations and Subjected to Compressive Loads* Stawiarski, A.[1], Barski, M.[1], Chwał, M.[1], Romanowicz, P.[1], Jakubczak, P.[2]., Bieniaś, J.[2], Muc, A.[1] [1] Cracow University of Technology, Poland [2] Lublin University of Technology, Poland	*099 Estimating Natural Frequencies of Cylinders in Water Through Numerical Pluck Tests and Surrogate Models* Ribeiro Neto, H., Cavalini Jr., A., Villar, M. M., Souza, P. R. C., Vedovoto, J. M., Silveira Neto, A. Federal University of Uberlândia, Santa Mônica, Brazil
16:40	*128 Ground Vibration Test of a Modular Remotely Piloted Vehicle* Oliveira, É.[1], Afonso, F.[1], Policarpo, H.[1,2], Rodrigues, S. S.[1], Lourenço, J.[1], Ornelas, J.[1], Pinto, P.[1], da Silva, R. G. A.[3], Neves, M. M.[1], Maia, N. M. M.[1], Lau, F.[1], Suleman, A.[1,4] [1] IDMEC, Instituto Superior Técnico, Univ. of Lisbon, Portugal [2] New University of Lisbon, Caparica, Portugal [3] Techn. Inst. of Aeronautics, S. José dos Campos, SP, Brazil [4] University of Victoria, British Columbia, Canada	*071 Experimentally Validated Flexible Multibody Model of a 3RRR Parallel Manipulator* Colombo, F. T., da Silva, M. M. EESC-USP, University of São Paulo, São Carlos, Brazil	*034 Filter-based Identification of the Bouc-Wen Model Parameters* Yang, C.[1], Bernal, D.[2], Liu, Y.[1] [1] Harbin Institute of Technology, P. R. China [2] Northeastern University, Boston, USA
17:00	*062 Flight Dynamics Modeling of a Flexible Wing Unmanned Aerial Vehicle* Castillo Zúñiga, D. F., Souza, A. G., Rios, A., Góes, L. C. S. Technological Institute of Aeronautics, São José dos Campos, Brazil	*124 Towards a Multidimensional Topography Sensing Atomic Force Microscope using Multiple Vibration Modes* Bucher, I., Rubin, E., Davis, S. Dynamics Laboratory, Mech. Eng., Technion, Haifa, Israel	*116 A Numerical Procedure based on Cross-Entropy Method for Stiffness Identification* Dantas, E.[1], Cunha Jr., A.[1], Silva, T. A. N.[2] [1] NUMERICO, Rio de Janeiro State University, Brazil [2] NOVA UNIDEMI, New Univ. of Lisbon, Caparica, Portugal
17:20		*090 Digital Microeletromechanical Accelerometers for Vibration Monitoring* Moreira, R. A. S. University of Aveiro, Portugal	

Tuesday, June 25th, Morning

08:30	*Keynote Lecture #03 – Modeling, Optimization and Experimental Characterization of the Dynamic Behavior of Advanced Composite Materials* Rade, D. A.[1], Guimarães, T. A. M.[3], Almeida, D. P.[2], [1]Technological Institute of Aeronautics, São José dos Campos, SP, Brazil [2]Federal University of Uberlândia, Campus Santa Mônica, Uberlândia, MG, Brazil [3] Technological Institute of Aeronautics and São Paulo State Institute of Technological Research, São José dos Campos, SP, Brazil Chair: Boltežar, M., University of Ljubljana, Slovenia		
	Room A - Session 4A Aeronautical/Aerospace Topics III Chair: Murilo, A. de A. P., University of Brasília, Brazil	Room B - Session 4B Special Session on Signal Processing for Damage Identification (Developed by Garibaldi, L.) Chair: Garibaldi, L., Polytechnic. of Torino, Italy	Room C - Session 4C Special Session on Phononic Crystals and Acoustic Metamaterials (Developed by Arruda, J., Rade, D.) Chair: Arruda, J. R. F., Univ. of Campinas, SP, Brazil
09:20	*029 Nonlinear Aeroelastic Stall-Induced Oscillations of Pitching and Plunging Airfoil in Low wind Speeds* Dos Santos, C. R., Marques, F. D. University of São Paulo, São Carlos, Brazil	*006 An Accurate Extraction Method of Frequency-Modulation for Gear Fault Diagnosis* Yang, X., Ding, K., He, G. South China University of Technology, Guangzhou, P. R. China	*009 Spectral Transfer Matrix Method for Higher Order Phononic Crystal Waveguides* Goto, A. M.[1], Nóbrega, E. D.[1,2], Pereira, F. N.[1,3], Dos Santos, J. M. C.[1] [1] University of Campinas, São Paulo, Brazil [2] Federal University of Maranhão, Brazil [3] State University of Maranhão, Campus São Luís, Brazil
09:40	*036 Optimal Factorization of the State-Dependent Riccati Equation Technique in a Satellite Attitude and Orbit Control System* Romero, A. G.[1], Souza, L. C. G.[2] [1] Nat. Inst. for Space Research, S. José dos Campos, SP, Brazil [2] Federal University of ABC, S. Bernardo do Campo, SP, Brazil	*020 A Hybrid Sparse Representation Method for Diagnosis of Bearings* Yu, J., Yang, Z., Sun, R., Zhang, J., Qiao, B. Xi'an Jiaotong University, Xi'an, P. R. China	*065 Membrane and Smart Metamaterials for Unidirectional Wave Propagation Problems* Sampaio, L. Y. M.[1], Rodrigues, G. K.[1], Sánchez, J. A. M.[2], de Oliveira, L. P. R.[1] [1] Dept. of Mech. Eng., Univ. of São Paulo, São Carlos, Brazil [2] Dept. of Aeronautics Eng., Univ. of São Paulo, São Carlos, Brazil
10:00	*049 Ground Vibration Testing and In-Flight Testing of a Full-Electric Light Aircraft* Di Lorenzo, E., Musella, U., Vettori, S., Hallez, R., Debille, J., Peeters, B. Siemens Industry Software NV, Leuven, Belgium	*041 Economic Storage and Accurate Reconstruction of Multi-Channel Vibration Records using Bayesian Virtual Sensing* Kullaa, J. Metropolia University of Applied Sciences, Finland	*052 Flexural Wave Band Gaps in Elastic Metamaterial Thick Plates* Miranda Jr., E. J. P.[1], Dos Santos, J. M. C.[2] [1] Federal Institute of Maranhão, São Luís, MA, Brazil [2] University of Campinas, SP, Brazil
10:20	*053 Parameterized Nonlinear Model Predictive Control Applied to Satellite Attitude Control* Rodrigues, R. S.[1], Murilo, A. de A. P.[2], Lopes, R. V.[3], Souza, L. C. G.[4] [1] Faculty of Technology, University of Brasília, Brazil [2;3] Faculty of Gama, University of Brasília, Gama-DF, Brazil [4] Federal University of ABC, Santo André-SP, Brazil	*033 Virtual Closed Loop Parameter Estimation: a Review* Bernal, D.[1], Ulriksen, M. D.[2] [1] Northeastern University, Boston, MA, USA [2] Aalborg University, Esbjerg, Denmark	*058 Application-Driven Sensitivity Analysis of Membrane-Type Acoustic Metamaterials* Pereira, I., Rade, D. A. Technological Institute of Aeronautics, São José dos Campos, Brazil
10:40	Coffee Break		

Tuesday, June 25th, Morning (Cont.)

	Room A - Session 5A Transmissibility/ Transfer Path Analysis Chair: Neves, M. M., IDMEC / IST, Univ. of Lisbon, Portugal	Room B - Session 5B Special Session on Signal Processing for Damage Identification (cont.) (Developed by Garibaldi, L.) Chair: Bernal, D., Northeastern University, Boston, MA, USA	Room C - Session 5C Special Session on Phononic Crystals and Acoustic Metamaterials (cont.) (Developed by Arruda, J., Rade, D.)) Chair: Dos Santos, J. M. C., University of Campinas, SP, Brazil
11:10	*106 Combining Blocked Force Transfer Path Analysis and Dynamic Substructuring for Acoustic Design Optimization* Haeussler, M., Kobus, D., Rixen, D. J. Technical University of Munich, Garching, Germany	*054 Fault Diagnosis of Wind Turbine Gearboxes through On-Site Measurements and Vibrational Signal Processing* Castellani, F.[1], Garibaldi, L.[2], Astolfi, D.[1], Daga, A. P.[2], Becchetti, M.[1], Fasana, A.[2], Marchesiello, S.[2] [1] Dept. of Engineering, University of Perugia, Italy [2] Dept. of Mech. and Aerospace Eng., Polit. di Torino, Italy	*067 Parallel Assembly of Acoustic Resonators to obtain Narrow-Band Unity Sound Absorption Peaks below 1000 Hz* Carvalho De Sousa, A.[1,2], Deckers, E.[1,2], Claeys, C. [1,2], Desmet, W. [1,2] [1]Dept. of Mech. Eng., KU Leuven, Belgium [2]DMMS lab, Flanders Make, Belgium
11:30	*014 Application of Neural Networks for Transfer Path Analysis* Saigusa, K., Chauvicourt, F., Van der Auweraer, H. Siemens Industry Software N.V, Leuven, Belgium	*069 On the use of Complex Gains in Virtual Feedback for Model Updating* Ulriksen, M. D.[1], Bernal, D.[2] [1] Dept. of Civil Eng., Aalborg University, Esbjerg, Denmark [2] Northeastern University, Boston, MA, USA	*074 Improving Longitudinal Wave Band Gaps in 1D Phononic Crystal Rods using a Genetic Algorithm* Ribeiro, L. S.[1], Ribeiro, G. A. S.[2], Pires, D. S.[3], Santana, E. E. C.[1], Miranda Jr., E. J. P.[4] [1] State University of Maranhão, São Luís, MA, Brazil [2] Federal University of Goiás, Goiânia, GO, Brazil [3]Federal Inst. of Maranhão, IFMA-DEE, São Luís, MA, Brazil [4]Federal Inst. of Maranhão, IFMA-EIB-DE, São Luís, MA, Brazil
11:50	*123 A Comparison between Dynamic Force Estimation via Classical Transfer Path Analysis and Kalman Filtering Techniques* Ramos, A. C. R.[1], Álvarez-Briceño, R.[2], Melo, C. A. P.[3], de Oliveira, L. P. R.[1] [1] University of São Paulo, São Carlos, Brazil [2] University San Francisco de Quito, Ecuador. [3] Federal Centre of Technological Education of Minas Gerais, Belo Horizonte, Brazil	*122 Kurtosis Enhanced Demodulation Spectrum for Bearing Fault Diagnosis* Sun, R.-B., Yang, Z. B., Chen, X.-F. School of Mech. Eng., Xi'an Jiaotong Univ., Xi'an, P. R. China	*066 Locally Resonant Bandgaps In Elastic Meta-material Using Scaled Boundary Finite Element Method* Cantanhêde, H. V., Dos Santos, J. M. C. University of Campinas, Campinas, Brazil
12:10	*125 A Note on the Use of Vibro-Acoustic Transmissibility to Estimate Vibro-Acoustic Responses* Neves, M. M.[1], Policarpo, H. F. D.[1], Maia, N. M. M.[1], Tcherniak, D.[2] [1] IDMEC, Instituto Superior Técnico, Univ. of Lisbon, Portugal [2] Brüel & Kjær Sound & Vibration Measurement, Denmark	*087 Analysis of NASA Bearing Dataset of the University of Cincinnati by Means of Hjorth's Parameters* Cavalaglio Camargo Molano, J., Strozzi, M., Rubini, R., Cocconcelli, M. University of Modena and Reggio Emilia, Reggio Emilia, Italy	*079 Maximizing Wave Attenuation in 1D Phononic Crystal Rods* Lima, V. D.[1], Assis, G. F. C. A.[1], Miranda Jr., E. J. P.[2], Dos Santos, J. M. C.[1], Arruda, J. R. F.[1] [1] University of Campinas, UNICAMP-FEM-DMC, SP, Brazil [2] Federal Inst. of Maranhão, IFMA-EIB-DE, S. Luís, MA, Brazil
12:30	Lunch		

Tuesday, June 25th, Afternoon

14:00	*Keynote Lecture #04 – Recent advances in Vibration Fatigue* Boltežar, M., Slavič, J., Česnik, M., University of Ljubljana, Slovenia Chair: Link, M., University of Kassel, Germany		
	Room A - Session 6A Nonlinear Dynamics I Chair: Hagedorn, P., Technical University of Darmstadt, Germany	Room B - Session 6B Experimental Modal Analysis Chair: Slavič, J., University of Ljubljana, Slovenia	Room C - Session 6C Special Session on Phononic Crystals and Acoustic Metamaterials (cont.) (Developed by Arruda, J., Rade, D.)) Chair: Rade, D., Technological Institute of Aeronautics, Brazil
14:50	*012 Cyclostationary Gaussian and Non-Gaussian Linearization on Analyzing Double-Well Nonlinear Oscillators* Chang, R. J. National Cheng Kung University, Tainan, Taiwan, ROC	*045 On The Vibration of Gearboxes and Generator Stator using Measured Modal Parameters only* Graf, B., Werner, D. University of Applied Sciences of Ulm, Germany	*085 Wave Propagation in a Tunable Metamaterial Beam with Periodic Piezoelectric Shunts* Macedo, P.[1], Nóbrega, E. D.[1,2], Dos Santos, J. M. C.[1] [1] University of Campinas, Campinas-SP, Brazil [2] Federal University of Maranhão, São Luis, MA, Brazil
15:10	*018 Subspace System Identification of a Non-Smooth Nonlinearity under Random Excitation* Anastasio, D.[1], Lisitano, D.[1], Marchesiello, S.[1], Bonisoli, E.[1], Mottershead, J.E.[2] [1] Polytechnic of Torino, Italy [2] University of Liverpool, UK	*105 The Poly-Reference Least-Square Complex Frequency Identification revised to improve Damping Estimation* Hoffait, S.[1], Ligot, J.[1], Bertha, M.[1], Moschini, S.[1], Simon, D.[1], Golinval, J.C.[2] [1] V2i. s.a., Parc Scientifique du Sart-Tilman, Liège, Belgium [2] University of Liège, Belgium	*086 Band Gap Investigation using Free and Forced Response with Cylindrical Shell Spectral Element* Pereira, F. N.[1], Dos Santos, J. M. C.[2] [1] University of Maranhão - UEMA, São Luís-MA, Brazil [2] University of Campinas, Campinas, SP, Brazil
15:30	*100 Modeling and Experimental Characterization of a Duffing-Like Negative Stiffness Oscillator* Anastasio, D., Fasana, A., Garibaldi, L., Marchesiello, S. Polytechnic of Torino, Italy	*101 Single High-Speed Camera Spatial Deflection Shape Reconstruction* Gorjup, D., Slavič, J., Boltežar, M. University of Ljubljana, Slovenia	
15:50	Coffee Break		

Tuesday, June 25th, Afternoon (Cont.)

	Room A - Session 7A Rotating Machinery II Chair: Steffen Jr., V., Fedederal University of Uberlândia, Brazil	Room B - Session 7B Model Validation/Uncertainty Chair: Varoto, P. S., University of São Paulo, São Carlos, Brazil	Room C - Session 7C Special Session: Vibration of Solids and Structures under Moving Loads (Developed by Koziol, P.) Chair: Koziol, P., Cracow University of Technology, Poland
16:20	*057 Combined Signal Processing and Machine Learning Condition Monitoring* Helsen, J., Peeters, C., Daems, P.-J., Verstraeten, T., Nowe, A. Free University of Brussels, Belgium	*107 Stochastic Dynamic Analysis of Sandwich Beam containing Periodic Viscoelastic Core* Borges, R. A.[1], Rodovalho, L. F. F.[2], Rade, D. A.[2] [1] Federal University of Goiás, Catalão/GO, Brazil [2] Aeronautics Institute of Technology, São José dos Campos, SP, Brazil	*047 Numerical and Experimental Investigation of Time-Varying Vibration Control for a Beam Subjected to Moving Masses* Sievert, L., Stancioiu, D., Matthews, C., Rothwell, G., Jenkinson, I. Liverpool John Moores University, Liverpool, UK
16:40	*091 Probabilistic Analyses for the Prediction of Lateral Vibration in Large Steam Turbo-Generator Sets* ter Beek, M., Bachet, E., Ebbers, J., Ruhe, M. Siemens AG, Power Generation Services Division, Gas and Power, Mülheim an der Ruhr, Germany	*112 Tuned Mass Damper Identification for Uncertain Systems* Kyprianou, A. Department of Mechanical and Manufacturing Engineering, University of Cyprus, Nicosia, Cyprus	*114 Dynamics of a Nonlinear Double-Beam System Resting on a Nonlinear Foundation and Subjected to a Moving Load* Koziol, P., Pilecki, R. Cracow University of Technology, Kraków, Poland Oral presentation only
17:00	*082 Convolutional Neural Network Applied to Fault Classification in a Planetary Gearbox using Simulated Vibration Data* Gecgel, O.[1], Ekwaro-Osire, S.[1], Morais, T. S.[2], Dias, J. P.[1], Rufato, R. C.[2] [1] Texas Tech. University, Lubbock, Texas, USA [2] Federal University of Uberlândia – MG, Brazil	*115 Effects of Uncertainties on the Dynamic Response of an MDOF Piezoelastic Vibration Energy Harvester* Varoto, P. S., University of São Paulo, São Carlos, Brazil	*113 Dynamic Response of Beam-Foundation System to a Stochastic Moving Load* Koziol, P.[1], Mares, C.[2], Kudla, D.[1], Pilecki, R.[1] [1] Cracow University of Technology, Kraków, Poland [2] Brunel University, London, UK Oral presentation only
17:20	*070 Systematic Approach to the Design of Robust Controllers Applied to Supercritical Rotors Supported by Magnetic Bearings* Carvalho, F. C., Oliveira, M. V. F., Pereira, B. L., Cavalini Jr., A. A., Steffen Jr., V. Federal University of Uberlandia – MG, Brazil		

20:00 - Conference Banquet (at the hotel)

Wednesday, June 26th, Morning

	Room A - Session 8A Nonlinear Dynamics II Chair: Bonisoli, E., Polytechnic of Torino, Italy	Room B - Session 8B Operational Modal Analysis Chair: Brandt, A., Univ. of Southern Denmark, Odense M, Denmark	Room C - Session 8C Active Control II Chair: Ghandchi Tehrani, M., ISVR, Univ. of Southampton, UK
10:00	*040 Experimental and Numerical Studies of a Non-Linear Damped Pendulum in an Alternating Magnetic Field* Wijata, A., Polczyński, K., Awrejcewicz, J. Lodz University of Technology, Poland	*064 Planning of an In-Flight Aeroelastic Testing of a Flexible Unmanned Aerial Vehicle using a Combined Accelerometers-Strain Sensors Opera-tional Modal Analysis* Castillo Zúñiga, D. F., Souza, A. G., Góes, L. C. S. Technological Institute of Aeronautics, São José dos Campos, Brazil	*088 Vibration Attenuation of a Truss Structure with Piezoelectric Shunt-Damping for Varying Static Axial Loads in the Truss Members* Lenz, J.[1], Holzmann, H.[1], Platz, R.[2], Melz, T.[1] [1] Technical University of Darmstadt, Germany [2] Fraunhofer Institute for Structural Durability and System Reliability LBF, Darmstadt, Germany
10:20	*104 Transient Treatment of Convective Contributions in Elastic-Elastic Arbitrary-Lagrangian-Eulerian Contact with Friction* Weidauer, T., Willner, K. Friedrich-Alexander Universität Erlangen Nürnberg, Erlangen, Germany	*048 Automatic Detection and Removal of Harmonics in Vibration Signals* Brandt, A. Department of Technology and Innovation, University of Southern Denmark, Odense M, Denmark	*089 Active Vibration Control of a Nonlinear System using the Receptance Method* Ghandchi Tehrani, M. Inst. of Sound & Vibr. Research, Univ. of Southampton, UK
10:40	Coffee Break		
		Room B - Session 9B Other Topics Chair: Oliveira, C. S., CERIS, IST, Univ. of Lisbon, Portugal	
11:10		*028 Influence of Technical Seismicity on the Historical Building* Urushadze, S., Pirner, M., Bayer, J. Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences, Prague, Czech Republic	
11:30		*129 Low Cost Mobile System for Vibration Analysis on Board of Navy Vessels* Ramos, B. F. P., Sampaio, R. P. C., Damas, B. Portuguese Naval School, Naval Base of Lisbon, Almada, Portugal	
11:50		*130 Vibration characteristics of metallic truss footbridges: "In-situ" versus analytical studies* Oliveira, C. S., Camacho, V. T. CERis/ICIST, Inst. Superior Tecnico, Univ. of Lisbon, Portugal	
12:15	Lunch		

End of the Conference
14:30 Tour to Ponte de Lima + Dinner in Viana do Castelo