	e	CoEV 2020 - Conference Pro	ogramme - Short Version (Time is GMT)		
Monday (14/12/2020)					
Time Session	Chair	Speaker	Title		
Zoom link	https://us02web.zoom.us/j	/84789068108			
08:45 Opening Ceremon	У				
09:00 Opening Lecture	Marian Wiercigroch	Irina <u>Goracheva</u>	Effect of Mechanical Properties of Contacting Bodies on Deceleration Process		
09:40 Coulomb	Emil <u>Manoach</u>	Yao <u>Yan</u>	Nonlinear Analysis of Regenerative and Frictional Cutting Dynamics Based on New Model		
10:00		Oleksandr Menshykov	Interface Cracks under Harmonic Shear: Effects of Contact and Friction		
10:20		Andrzej <u>Stefanski</u>	Synchrony in Frictional Oscillators		
10:40		Georg <u>Jehle</u>	Geometric Judder in Automotive Multi-Disk Clutches: Stochastic Simulation Approach		
10:50		Heba <u>El-Mongy</u>	Nonlinear dynamics of rotor whirling within an asymmetrically supported snubber ring		
11:00		Tamer <u>El-Sayed</u>	Stability of Journal Bearing Based on Second Order Stiffness and Damping Parameters		
11:10 Comfort Break		/o.4700000400			
Zoom link	https://us02web.zoom.us/j				
11:20 Euler	Zuzana <u>Dimitrova</u>	Emil <u>Manoach</u>	Vibration of a Cantilever in Micro-Channel Interacting with Rarefied Gas Flow		
11:40		Patrick <u>O'Brien</u>	Nonlinear Beam Approximations to Principle of Virtual Work		
12:00		Krzysztof <u>Kecik</u>	Role of Electromechanical Coupling in the Vibration Absorber/Harvester System		
12:20		Andrés <u>García</u>	Energy Harvesting from Rotating Parametric Pendulum via Optimal Control		
12:30		Santhosh <u>B</u>	Energy Harvesting Performance of Adaptive Snap Through Oscillator		
12:40		Lukasz <u>Kloda</u>	Flexural 3:1 Internal Resonances in Hinged Supported Beams with Axial Spring		
12:50 Comfort Break					
Zoom link	https://us02web.zoom.us/j	/84789068108			
13:00 Plenary Lecture	Tomasz <u>Kapitaniak</u>	Muhammad Hajj	Vibration-Based Energy Harvesting and Transmission		
13:40 Lyapunov	Janko <u>Slavic</u>	Yuri Mikhlin	Resonance Vibration of the Non-Ideal System Having Mises Girder as Absorber		
14:00		Ekaterina Pavlovskaia	Vortex-Induced Vibration of Flexible Risers in Ocean Currents		
14:20		Sergey <u>Lekomtsev</u>	Suppression of Resonance Vibration of Rectangular Plate Interacting with Fluid		
14:30		Sandor <u>Beregi</u>	Numerical Bifurcation Analysis of Oscillating Aerofoil under Noise-Load		
14:40		Rahul Mishra	Effect of Damping on Vortex-Induced Vibration of Circular Cylinder on Nonlinear Spring Support		
14:50		Guilherme Jorge Vernizzi	Invariant Manifolds for Analysis of Flexible Cylinders Under Vortex-induced Vibration		
15:10 Comfort Break					
Zoom link	https://us02web.zoom.us/j/84789068108				
15:20 Poincare	Stefano <u>Lenci</u>	Tomasz <u>Kapitaniak</u>	Chimera States for Coupled Pendula		
15:40		Jun <u>Jiang</u>	Global Analysis of Nonlinear Dynamical Systems with Concepts and Methods from Data Science		
16:00		Marcelo <u>Savi</u>	Mechanical Description of Origamis		
16:20	Oleksandr Menshykov	Sabine <u>Upnere</u>	Inverse Modelling of Rod Behaviour in Flow Using Surrogate-Based Approach		
16:30		Shanti <u>Kandala</u>	Evolution of Friction Parameters Along Well		
16:40		Cezary <u>Graczykowski</u>	Mathematical Formulations of Dynamic Response Mitigation for Semi-active Fluid Absorbers		
16:50		Rami <u>Faraj</u>	Control of the Fluid-Based Absorbers under Impact and Vibration Conditions		
17:00		Luboš <u>Smolík</u>	Application of Feedforward Networks to Evalute Joint Forces in Multibody Systems		
17:10		Idin <u>Nazzari</u>	Dynamics of High Frequency Impact in Jarring Operations		
17:20		Phablo Ramos Carvalho	Chimera State Analysis via Energetic Approach		

Tuesday (15/12/2020)			
Zoom link	https://us02web.zoom.u	s/j/84789068108	
Time Session	Chair	Speaker	Title
09:00 Plenary Lecture	Marian Wiercigroch	Debasish <u>Roy</u>	Geometrically Developed Stochastic Dynamics and Applications
09:40 Newton	Yao <u>Yan</u>	Weiqiu <u>Chen</u>	Axisymmetric Vibration of Soft Electroactive Cylindrical Shells
10:00		Yufeng <u>Xing</u>	Parameter Spectral Analysis Theory and Generalized Central Difference Method
10:20		Rafal <u>Rusinek</u>	Nonlinear Vibration in Bio-Electro-Mechanical System of Human Middle Ear
10:40		Qingjie <u>Cao</u>	SD Oscillators, Isolators and Suspensor Free of Resonance
11:00 Comfort Break			
Zoom link	https://us02web.zoom.u	s/j/84789068108	
11:20 Watt	Jerzy <u>Wojewoda</u>	Hirotaka <u>Araki</u>	Shift Manipulation of Intrinsic Localized Mode in AC Driven Klein Gordon Lattice
11:30		Abd <u>Jaffal</u>	Design and Testing of Resonance Enhanced Scale Milling Tool for Hard Scales
11:40		Ningkang Zhang	Crack-Tip Stress Field due to Presence of Isotropic Dilatational Inclusions
11:50		Aasifa <u>Rounak</u>	Tracking Survivability of Solutions in Nonlinear Dynamical Systems
12:00		Mate <u>Vizi</u>	Control of Cyclic Systems
12:10		Jiajia <u>Zhang</u>	Development of a Vibro-Impact Self-Propelled Capsule in Millimetre-Scale
12:20		Van-Du <u>Nguyen</u>	Comparative Study of Vibro-Driven Capsubot
12:30		Marcin Kowalczuk	Dynamics of Cantilever Active Bimorph Beam with Electro-Magneto-Mechanical Coupling
12:40 Comfort Break			
Zoom link	https://us02web.zoom.u	s/j/84789068108	
13:00 Plenary Lecture	Giuseppe Rega	Stefano <u>Lenci</u>	Nonlinear Waves in Beams on Tensionless Substrates
13:40 Duffing	Carlos <u>Mazzilli</u>	Vikram <u>Pakrashi</u>	Real-Time Monitoring and Assessment of Dynamical Systems
14:00		Andrzej <u>Mitura</u>	Piezoelectric Actuator Hysteresis and Its Influence on Efficiency of Vibration Controllers
14:20		Americo <u>Cunha Jr</u>	Optimization of Energy Harvester via Cross-Entropy Method
14:40 Comfort Break	1 // 02 1	1:10.47000004.00	
Zoom link	https://us02web.zoom.u		Controlled Explosion of Co. E. Stout Attraction
15:10 Maxwell	Marcelo <u>Savi</u>	Dimitri <u>Danulussi Alves Costa</u>	Controlled Exchange of Co-Existent Attractors
15:20		Agustín <u>Hernández Rocha</u>	Analytical Method for Piecewise Linear Oscillators
15:30		Aidan <u>Lee</u>	Effects of Oscillating Pegs in a Galton Board
15:40		Virgilio <u>Caetano</u>	Multimodal Pizza-Shaped Piezoelectric Vibration-Based Energy Harvesters
15:50		João <u>Canisso Valese Norenberg</u>	Application of the Global Sensitivity Analysis on a Bistable Energy Harvester
16:00		Dan <u>Wang</u>	Nonlinear Energy Harvesting from Rotating System
16:10	Details Olbridge	Favour <u>Okosun</u>	Biological Sensor for Structural Health Monitoring
16:20	Patrick <u>O'Brien</u>	Breno Ayres Pereira Mendes	Energy Harvesting Using a Non-linear Vibration Absorber with a Piezoelectric Element
16:30		Zhifeng <u>Hao</u>	Modelling of Electromagnetic Actuator
16:40		Vinod <u>Yadav</u>	Material Dependent Parameters and Friction in UV Assisted Turning by Inverse Modelling
16:50		Fernando <u>Burgos</u>	Numerical Analysis of Active Coil-Magnet Vibration Actuator
17:00		Samuel <u>da Silva</u>	Detecting Loss of Tightening Torque in Bolted Joints Using Gaussian Process Regression
17:10	https://www.	Amin <u>Taraghi Osguei</u>	Nonlocal Shell Model for Vibration Analysis of Carbon Nanoscrolls
Zoom link	https://us02web.zoom.u	<u>s/J/84863001500</u>	
18:00 Virtual Banquet			

Wednesday (16/12/2020)		
Zoom link	https://us02web.zoom.u	s/i/84789068108	
Time Session	Chair	Speaker	Title
09:00 Plenary Lecture	Weigiu Chen	Keith <u>Davey</u>	Scaled Dynamics
09:40 Bernoulli	Jerzy <u>Warminski</u>	Ling Hong	Fuzzy Noise-Induced Bifurcations by Fuzzy Cell Mapping with Adaptive Interpolation
.0:00		Yusheng <u>Zhou</u>	Nonholonomic Constraints and Motion Control of Wheeled Mobile Structures
10:20		Jian <u>Yang</u>	Vibration Energy Flow Analysis of Smooth and Non-Smooth Nonlinear Dynamical Systems
.0:40		Jan Rendl	Dynamics of Jeffcott Rotor Supported by Tilting-pad Journal Bearings
.0:50		Lijun <u>Pei</u>	The short and long termed predictions of COVID-19 in different countries in the world
1:00		Bugra <u>Bayik</u>	Distance Metric Learning for Vibration-Based Structural Damage Detection
		248.4 <u>241</u>	
1:10 Comfort Break			
Zoom link	https://us02web.zoom.u	s/j/84789068108	
1:20 Stevenson	Ian <u>Howard</u>	Antonio Chong	Lyapunov Exponents for Non-Smooth Systems via the Computational Suite ABESPOL
1:30		James <u>MacLean</u>	Linear Integral Resonant Controller for Suppressing Stick-Slip of Underactuated Drill-String
1:40		Paul <u>Mucchielli</u>	Simulation of Pendulum Tuned Mass Damper under Random Excitation
.1:50		Evgenii <u>Kozhevnikov</u>	Influence of Pressure Waves on the Near Bottom Hole Formation Zone Permeability
2:00		Weicheng <u>Li</u>	Dynamics and Energy Saving Control of SRP Systems
2:10		Sze-Hong <u>Teh</u>	Attractors of Rotating Pendulums
2:20		Ali <u>Hassanirad</u>	Numerical modelling of dynamic crack propagation in fatigue experiment
2:30		Dou <u>Xie</u>	Nonlinear Dynamics of Lump Mass Model of Drill-String in Horizontal Well
.2:40		Alexey <u>Voropay</u>	Active Control of Nonstationary Vibration in Plates Under Dynamic Loading
12:50 Comfort Break			
Zoom link	https://us02web.zoom.u		
3:00 Bell	Vahid <u>Vaziri</u>	Maolin <u>Liao</u>	Numerical and Experimental Study of Bit-Rock Vibro-Impact System
3:20		Joseph <u>Páez Chávez</u>	Numerical Continuation Approach to Study Piecewise-Smooth Systems with Delay
3:40		Mahashweta <u>Patra</u>	Effect of Stochastic Switching Surface in Nonsmooth Systems
4:00		Pawel <u>Platek</u>	Mechanical Behaviour of 3D Printed Polyurethane Honeycomb Structures
14:20		Jerzy <u>Wojewoda</u>	High-Speed Video Recording Method to Track Double Pendulum Motion
4:40		Janko <u> Slavič</u>	High-Speed Camera Analysis in Structural Dynamics and Vibration Fatigue
15:00 Comfort Break	11. 11. 05. 1	1: /0.47000004.00	
Zoom link	https://us02web.zoom.u		1.14. 5. 11.4. 12.4.12
5:10 Logie Baird	Marcin <u>Kapitaniak</u>	Alicia <u>Terrero Gonzalez</u>	Is Wave Energy Untapped Potential?
5:20		Siqi <u>Li</u>	Application of Resonance Enhanced Drilling to Coring
5:30		Rimma <u>Abdrashitova</u>	Application of Hydrogeological Data in Search for Oil Fields in Western Siberia
.5:40		Gustavo <u>Anjos</u>	Fluid-Structure Interaction Analysis on Pipe Conveying Fluid Using Turbulent Stochastic Modelin
.5:50		Evgenii <u>Riabokon</u>	Nonlinear Young's Modulus of New Red Sandstone
.6:00		Mohammad <u>Khodadadi Dehkordi</u>	·
16:10		Vladimir <u>Poplygin</u>	Effect of Low Frequency and High Amplitude Fluctuations on Oil Production
16:20		Ali <u>Farhangfar</u>	Observer and Model Predictive Control Design for Suppression of Stick–Slip Oscillations
16:30 Closing Lecture	Ekaterina <u>Pavlovskaia</u>	Andrei <u>Metrikine</u>	Dynamics of Monopoles for Offshore Wind Turbines: Installation, Acoustics and Monitoring

17:40 Closing Ceremony