MORNING	SUNDAY 26/02	MONDAY 27/02	TUESDAY 28/02	WEDNESDAY 29/02	THURSDAY 01/03	FRIDAY 02/03
		STOCHASTIC MODELLING	STRUCTURAL DYNAMICS II		SIGNAL PROCESSING	FINITE ELEMENT
08:30-08:50 08:50-09:10		Chair: Eduardo de Cursi Christian Soize: Advanced method. for the identific. of stochastic models in computational mechanics. Cases of UQ for dynamical systems and mesoscale elasticity random fields for	Chair: Christian Soize  Marc Mignolet: Response of Some Structural Dynamic and Aeroelastic Systems with High Sensitivity to Variability/Uncertainty		Chair: Fernando Rochinha Pol Spanos: Emerging Signal Processing Techniques in Stochastic Structural Dynamics	Chair: Roberto Arruda 109 Wim Desmet: Recent Advances in Interval and Fuzzy FE Analysis
09:10-09:30		15 Rémi Croquet: Quantification of uncertainties on eigenelements of matrices with random coefficients 19 Rafael Lopez: Uncertainty quantification for algebraic	42 Rubens Sampaio: Stochastic analysis of the frictional forces of a drill-string on horizontal drilling 64 Thiago Ritto: Robust multiobjective optimization of rotor		55 Fabio Cortivo: Comparison of two learning strategies for a supervised neural network  56 Lídice Echevarría: The fault diagnosis inverse problem: ACO	81 Giovanni Falsone: The application of the Probability Transformation Method for the analysis of structures with 91 Fabio Nascimento: Reliability analysis in a large
09:30-09:50		systems of equations	bearing systems		and fuzzy-ACO	finite element vehicle model
09:50-10:10		29 Mircea Grigoriu: Physically consistent models for stochastic for elliptic partial differential equations	97 Marcela Machado: Wave propagation in a cracked beam spectral element including narameter uncertainty		43 Marcelo Trindade: Effectiveness of spatial modal filters based on optimally designed arrays of niezoelectric	108: Wim de Mulder: Modeling Uncertainty in the Context of Finite Element Models with Distance-Based
10:10-10:40		BREAK	BREAK		BREAK	BREAK
TIME/SESSION	I	STRUCTURAL DYNAMICS I	VIBRATION CONTROL		NONLINEAR DYNAMICS	DYNAMICS
10:40-11:00		Chair: Marc Mignolet  48: Wim Desmet: Perturbation techniques for simulation of plates in mid-frequency range using efficient Wave Based	Chair: José Maria Santos  44 Tatiane Godoy: Analysis of the effect of uncertainties on the effectiveness of niezoelectric energy harvesting		Chair: Pol Spanos 26 Edson Cataldo: A computational method for updating a probabilistic model of an uncertain parameter in a	Chair: Domingos Rade 93 Antonio de Lima: Stochastic modeling of flexible rotors 50 A. El-Hami: Numerical and
11:00-11:20		63 Paulo Gonçalves: Physical and Geometrical System Parameter Uncertainties on Nonlinear Oscillations of	98 Domingos Rade: Fatigue Analysis of Viscoelastic Systems Subjected to Multiaxial Random Loads		53 Americo Cunha: On the Dynamics of a Nonlinear Continuous Random System	experimental investigation of the dynamic behaviour of electronic systems
11:20-11:40		105 Luiz Góes: Robust Stability Analysis and Identification of Flutter 75 Roberta Lima: Analysis of	58 Paulo Varoto: Parameter Uncertainties in the Design and Optimization of Cantilever Piezoelectric Energy Harvesters. 45 Heinsten Santos: Active		18 Peter Hagedorn: Construction of Liapounov functions for the estimation of hasins of attraction 52 José Balthazar: On Control	23 Marcelo Piovan: Non- Linear Dynamics of Rotating Composite Thin Walled Beams: Analysis of Modeling 66 Mario Sandoval:
11:40-12:00		Markov Chain Monte Carlo Method and Example of its Application in Random	and passive vibration control using piezoelectric materials subjected to uncertainties on		Strategies, Including Parametric Errors, Applied to an Atomic Force Microscope Nonlinear	Uncertainty Quantification in the Simplified Contact Problem Retween Two Rodies
12:00-13:30		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
AFTERNOON	SUNDAY 26/02	MONDAY 27/02	TUESDAY 28/02	WEDNESDAY 29/02	THURSDAY 01/03	FRIDAY 02/03
TIME/SESSION	ı	RISK ANALYSIS /	STOCHASTIC DYNAMICS	ACOUSTICS	HEAT TRANSFER /	
13:30-13:50		MANUFACTURING Chair: André Beck Enrico Zio: Treatment of Uncertainties in Risk Assessment	Chair: Marcelo Trindade  Sondipon Adhikari: Novel Reduced Galerkin Projection Schemes for Stochastic	Chair: Sondipon Adhikari  111 Vincent Martin: The fundamental elements in certain inverse acoustic	METEOROLOGY Chair: Edson Cataldo Hélcio Orlande: Inverse Heat Transfer Problems	
13:50-14:10			Dynamical Systems	problems: their roles and interactions		
14:10-14:30		27 Jorge Riera: On the consideration and quantification of uncertainties in Science and Engineering	36 Luciana Justino: A Nonparametric Approach for Uncertainty Quantification in Structural Dynamic Models	103 Leopoldo Oliveira: Vibro- acoustic modelling variability dispersion on a sound quality space	47 Renato Silva: Modeling of Scale Deposition in Heat Exchanger. The uncertainty nrohlem.	
14:30-14:50		82 Johannes Mathias and Kai Habermehl: Control of uncertainties within interdiscinlinary design 41 Thais Santos: Development	12 Anas Batou: Stochastic reduced-order model for dynamical structures with high modal density in the low- 14 Mickaël Suptille:	110 A. El-Hami: Reliability Analysis of Vibro-Acoustic Problem  69 Alberto Diniz: Bayesian	78 Ariane dos Santos: A parametric study for firefly algorithm by solving an inverse nrohlem for precipitation field 106 Haroldo Campos Velho:	
14:50-15:10		of a Methodology in order to consider Uncertainties in Life- Cycle Assessment 20 Thomas Hauer:	Generation of stationary Gaussian processes for a high- cycle fatigue model. Annlication. 5 André Beck: Design-Point	Estimation of Frequency- Dependent Acoustical Properties in a Kundt's Tube 39 Alice Cicirello: An	Global Data Assimilation by Artificial Neural Networks for an Atmosnheric Model 71 Helaine Furtado: Data	
15:10-15:30		Uncertainties in Process Chains with Focus on the Drilling and Reaming Process	Excitation for Crack Propagation Under Narrow- Band Random Loading	Approach to Uncertainty Modeling with Application to Problems in Vibro-Acoustics	assimilation by neural network emulating representer method applied to the wave equation	
15:30-16:00		BREAK	BREAK	BREAK	BREAK	
16:00-16:20		PETROLEUM ENGINEERING Chair: Rubens Sampaio 6 Felipe Pereira: Multi-stage Markov Chain Monte Carlo methods for Porous media	OPTIMIZATION/RELIABILITY Chair: André Beck 112 Younes Aoues: Optimal design under uncertainty of reinforced concrete structures	STATISTICAL METHODS Chair: Haroldo C. Velho 54 Emerson Albuquerque: Validation of adhesion models based on Bayesian inference	CORROSION AND DAMAGE Chair: Roberto Machado 4 André Beck: Modelling Random Corrosion Processes via Chaos Polynomials	
16:20-16:40		flows	using system reliability 67 Amarísio Araújo: Multi- objective optimization by an evolutionary algorithm for	107 Julio Stern: Constructive Verification, Empirical Induction, and Falibilist	101 Caio Nogueira: Corrosion Time Initiation Modeling Considering Uncertainties	
16:40-17:00		38 Souleymane Zio: A Stochastic Collocation Method Applied to Uncertainty Quantification in Hydraulic	calibrating an hydrological 100 Roberto Machado: Reliability Analysis of Nonlinear Reinforced Concrete Beams Subject to Ageing Effects	Deduction: A Threefold  13 Carlos Pereira: Nested hypotheses: an example in genetics	<b>90 Felipe Bazán:</b> A stochastic model for failure assessment of corroded pipelines	
17:00-17:20		73 Gabriel Guerra: Analysis of flow-induced vibration model under uncertainties using an iterative workflow. 25 Helói Genari: A Damage	94 Sofia Diniz: Design of Reinforced-Concrete Beams for Shear: Model Selection and Model Uncertainties	9 Ivan Sendin: Protein Structure Reconstruction with Data Uncertainties 24 Viviane Maranhão: FBST	34 Younes Aoues: Probabilistic assessment of thermal fatigue of solder joints in mechatronic nackaging	
17:20-17:40		Detection Technique Based on ARMA Models Distance Estimation	multiobjective optimization method for constrained engineering design problems	for Covariance Structures of Gompertz Models		
17:40-19:30	REGISTRATION		HE HESEL HUBBERS	Meeting of the ABCM Committee on Uncertainty Quantification and Stochastic Modeling		
	OPENING AND					i