



Águas de Lindóia - SP
09th -14th March 2025

XX DINAME

International Symposium on
Dynamic Problems of Mechanics

DINAME 2025 GENERAL PROGRAM – 07/03/2025

Start	End	Sunday 09/03	Monday 10/03	Tuesday 11/03	Wednesday 12/03	Thursday 13/03	Friday 14/03
08:00	08:20		Opening	Keynote Lecture:	DIN-2025-0023	Keynote Lecture:	DIN-2025-0053
08:20	08:40		Keynote Lecture:	Fadi Dohnal	DIN-2025-0149	Diego Misseroni	DIN-2025-0164
08:40	09:00		Carlos Cesnik	DIN-2025-0087	DIN-2025-0106	DIN-2025-0124	DIN-2025-0066
09:00	09:20		DIN-2025-0009	DIN-2025-0213	DIN-2025-0137	DIN-2025-0035	DIN-2025-0122
09:20	09:40		DIN-2025-0061	DIN-2025-0098	DIN-2025-0029	DIN-2025-0059	DIN-2025-0081
09:40	10:00		DIN-2025-0072	DIN-2025-0173	DIN-2025-0148	DIN-2025-0191	DIN-2025-0067
10:00	10:30		CB/Posters	CB/Posters	CB/Posters	CB/Posters	CB
10:30	10:50		DIN-2025-0094	DIN-2025-0100	DIN-2025-0218	DIN-2025-0056	DIN-2025-0015
10:50	11:10		DIN-2025-0160	DIN-2025-0078	DIN-2025-0095	DIN-2025-0006	DIN-2025-0183
11:10	11:30		DIN-2025-0168	DIN-2025-0093	DIN-2025-0161	DIN-2025-0200	DIN-2025-0052
11:30	11:50		DIN-2025-0057	DIN-2025-0099	DIN-2025-0054	DIN-2025-0019	DIN-2025-0133
11:50	12:10		DIN-2025-0030	DIN-2025-0104	DIN-2025-0076	DIN-2025-0107	DIN-2025-0178
12:10	12:30		DIN-2025-0144	DIN-2025-0105	DIN-2025-0010	DIN-2025-0007	Closing
12:30	14:00		Lunch	Lunch	Lunch	Lunch	Lunch
14:00	14:20		Keynote Lecture:	Keynote Lecture:		Panel	
14:20	14:40		Daniel Rixen	Gaëtan Kerschen			Departure
14:40	15:00		DIN-2025-0014	DIN-2025-0177		DIN-2025-0193	
15:00	15:20		DIN-2025-0069	DIN-2025-0071		DIN-2025-0068	
15:20	15:40		DIN-2025-0031	DIN-2025-0171		DIN-2025-0084	
15:40	16:00		DIN-2025-0080	DIN-2025-0103		DIN-2025-0212	
16:00	16:30		CB/Posters	CB/Posters	Social Program	CB/Posters	
16:30	16:50		DIN-2025-0153	DIN-2025-0021		DIN-2025-0188	
16:50	17:10		DIN-2025-0186	DIN-2025-0024		DIN-2025-0064	
17:10	17:30	Arrival	DIN-2025-0083	DIN-2025-0063		DIN-2025-0001	
17:30	17:50	and	DIN-2025-0135	DIN-2025-0091		DIN-2025-0192	
17:50	18:10	Registration	DIN-2025-0217	DIN-2025-0131			
18:10	18:30		Petter Krus	DIN-2025-0074			
18:30	18:50					CDIN Meeting	
18:50	19:10						
19:10	19:30	Cocktail					
19:30	19:50						
19:50	20:00						
20:00	21:30	Dinner	Dinner	Dinner	Dinner	Special Dinner	
21:30	22:00						
22:00	22:30						

DINAME 2025 Detailed Program -- 07/03/2025

Day 1 – Monday 10/03						
08:00	08:20	Opening				
08:20	09:00	Keynote	Load alleviation for very flexible aircraft	Carlos Cesnik	University of Michigan	
Technical Session 1: Structural dynamics and vibrations						
Chair: Paulo Varoto						
09:00	09:20	DIN-2025-0009	On bogus drill-string modelling	Rubens Sampaio	Pontificia Universidade Católica do Rio de Janeiro	
09:20	09:40	DIN-2025-0061	Reduced-order modelling for the dynamic analysis of slender structures: aspects to be considered and potential pitfalls	Guilherme Franzini	Escola Politécnica da Universidade de São Paulo	
09:40	10:00	DIN-2025-0072	Influence of buried foundations on the ground vibration attenuation performance of surface walls	Josue Labaki	Universidade Estadual de Campinas	
10:00 10:30 Coffee-break / Posters session						
Technical Session 2: Data-driven methods and uncertainty quantification						
Chair: Thiago Ritto						
10:30	10:50	DIN-2025-0094	A data-driven modelling strategy for fluid-structure interaction problems from time-delayed structural information	Lucas Franceschini	Escola Politécnica da Universidade de São Paulo	
10:50	11:10	DIN-2025-0160	Investigation of tightening torque in bolted joints using the extended dynamic mode decomposition	Guilherme Santana	Universidade de Brasília	
11:10	11:30	DIN-2025-0168	On the use of data-driven models in the dynamic description of nonlinear systems: a case study of cantilever beams with magnetic interactions and piezoelectric coupling	Rafael Teloli	Université de Franche-Comté – Supmicrotech	
11:30	11:50	DIN-2025-0057	Failure analysis in wind turbine transmission systems: probabilistic modeling of wind behavior in system vibration analysis	Edilberto Costa	Universidade Estadual de Campinas	
11:50	12:10	DIN-2025-0030	Robustness and performance analysis of industry-standard well drilling controllers for mitigating stick-slip oscillations	Ricardo Féres	Escola de Engenharia de São Carlos da Universidade de São Paulo	
12:10	12:30	DIN-2025-0144	Probabilistic neural networks for remote sensing of dynamic systems	Guilherme Lacerda	Universidade Federal do Rio de Janeiro	
12:30 14:00 Lunch						
14:00	14:40	Keynote	Experimental substructuring: an efficient strategy in noise and vibration analysis	Daniel Rixen	Technical University of Munich	
Technical Session 3: Damage detection and structural health monitoring						
Chair: Rafael Teloli						
14:40	15:00	DIN-2025-0014	Uncertainties analysis on guided-wave based damage monitoring of an aluminum plate	Vitor Franco	Universidade Federal de São Carlos	
15:00	15:20	DIN-2025-0069	Damage detection in CFRP using acoustic emission	Jonathan Liebeton	University of Duisburg-Essen	
15:20	15:40	DIN-2025-0031	Enhancing delamination quantification in composite laminates through co-kriging combination of experimental and numerical data	Henrique Novais	Universidade Estadual Paulista – Ilha Solteira	
15:40	16:00	DIN-2025-0080	Predicting brake pad wear and remaining useful life with an experimental approach through vehicle longitudinal dynamics considering variable vehicle mass	Kenneth Jensen	Technical University of Denmark	
16:00 16:30 Coffee-break / Posters session						
Technical Session 4: Nonlinear dynamics						
Chair: Marcelo Savi						
16:30	16:50	DIN-2025-0153	Crankshaft main journal dynamics in large two-stroke marine engines - theory and experiment	Jacob Rasmussen	Technical University of Denmark	
16:50	17:10	DIN-2025-0186	Dynamic analysis of drill string behavior for offshore riserless directional drilling	Lucas Camp	Universidade Federal do Rio de Janeiro	
17:10	17:30	DIN-2025-0083	Nonlinear features of a wall-hitting ship under harmonic wave excitation	Cesar A. da Fonseca	Marinha do Brasil	
17:30	17:50	DIN-2025-0135	Evaluation of modal coupling in the nonlinear vibration analysis of hyperelastic circular cylindrical shells	Frederico da Silva	Universidade Federal de Goiás	
17:50	18:10	DIN-2025-0217	Updating information on system parameters with basin stability	Tomasz Kapitaniak	University of Aberdeen	
18:10	18:40		Large language model in engineering system design	Petter Krus	Linköping University	

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Day 2 – Tuesday 11/03					
08:00	08:40	Keynote	Exploiting energy transfer by time-periodicity in transient dynamics	Fadi Dohnal	Vorarlberg University of Applied Sciences
Technical Session 5: Damage detection and structural health monitoring Chair: Aldemir Cavalini Jr					
08:40	09:00	DIN-2025-0087	Online monitoring of rotor-bearing systems using controllable lubrication techniques and operational modal analysis	Sebastian Damsgaard	Technical University of Denmark
09:00	09:20	DIN-2025-0213	Investigation of using non-contact sensors for leak location using pipe and ground vibration measurements	Bruno Campos	Universidade Estadual Paulista – Bauru
09:20	09:40	DIN-2025-0098	Damage characterization in plates with machine learning-based inverse surrogates utilizing lamb waves	Daniel Castello	Universidade Federal do Rio de Janeiro
09:40	10:00	DIN-2025-0173	Influence of damage and structural periodicity on the electromechanical impedance for shm	Lorena Dias	Universidade Estadual Paulista – Ilha Solteira
10:00 10:30 Coffee-break / Posters session					
Technical Session 6: Dynamics of metamaterials Chair: J. Roberto Arruda					
10:30	10:50	DIN-2025-0100	Dynamic behavior of acousto-elastic phononic crystals incorporating fluid sloshing and communicating channels between unit cells	Thiago Sales	Instituto Tecnológico de Aeronáutica
10:50	11:10	DIN-2025-0078	Automatic inductance tuning of smart-metamaterial for vibro-acoustic applications	Gabriel Rodrigues	Escola de Engenharia de São Carlos da Universidade de São Paulo
11:10	11:30	DIN-2025-0093	Arch type vibration neutralizer: simulations and experiments	Fabio Santiciolli	Universidade Estadual Paulista – Bauru
11:30	11:50	DIN-2025-0099	Optimization of bandgap width related to an “s”-shaped, beam-type unit cell using response surface metamodels	Yuri Martins	Instituto Tecnológico de Aeronáutica
11:50	12:10	DIN-2025-0104	The effect of bearings on the elastic wave propagation in rotors with longitudinal periodicity	Patrick Lamas	Escola de Engenharia de São Carlos da Universidade de São Paulo
12:10	12:30	DIN-2025-0105	Analyzing viscoelastic phononic crystals by the scaled boundary finite element method	Emanuel Cruvinel	Universidade Estadual de Campinas
12:30 14:00 Lunch					
14:00	14:40	Keynote	Experimental continuation: a paradigm shift in nonlinear dynamics	Gaëtan Kerschen	University of Liège
Technical Session 7: Structural dynamics and vibrations Chair: Paulo Kurka					
14:40	15:00	DIN-2025-0177	Stability maps of an electromechanical system with asynchronous parametric excitation	Roberta Lima	Pontifícia Universidade Católica do Rio de Janeiro
15:00	15:20	DIN-2025-0071	Passive mitigation of whirl flutter via nonlinear vibration absorber	Flavio Marques	Escola de Engenharia de São Carlos da Universidade de São Paulo
15:20	15:40	DIN-2025-0171	Optimizing asymmetric automotive suspension: balancing comfort and safety	José Geraldo Ribeiro	Universidade do Estado do Rio de Janeiro
15:40	16:00	DIN-2025-0103	Multibody model of the flapping wing	Renan Silva	Universidade Estadual Paulista – Ilha Solteira
16:00 16:30 Coffee-break / Posters session					
Technical Session 8: Nonlinear dynamics Chair: Aline Souza de Paula					
16:30	16:50	DIN-2025-0021	Dynamics of graded waterbomb origami tubes: ordered and disordered structures	Americo Cunha Jr	Universidade do Estado do Rio de Janeiro
16:50	17:10	DIN-2025-0024	Co-existing orbits stabilisation by time-delayed feedback control	Dimitri Costa	University of Aberdeen
17:10	17:30	DIN-2025-0063	Axial-torsional drill-string model considering thermal-assisted cutting	Thiago Ritto	Universidade Federal do Rio de Janeiro
17:30	17:50	DIN-2025-0091	A numerical study of the vibro-impact non-linear energy sink for seismic mitigation	Edgard Gutierrez	Escola Politécnica da Universidade de São Paulo
17:50	18:10	DIN-2025-0131	Dynamical analysis of a helical gear pair	Lais Visnadi	Universidade de Brasília
18:10	18:30	DIN-2025-0074	Mitigation of aeroelastic galloping with nonlinear damping energy sinks	José Augusto da Silva	Escola de Engenharia de São Carlos da Universidade de São Paulo

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Day 3 – Wednesday 12/03					
Technical Session 9: Dynamics of metamaterials					
Chair: Adriano Fabro					
08:00	08:20	DIN-2025-0023	Multifunctional metastructure based on beam for attenuate elastic wave propagation and energy harvesting	João Pedro Norenberg	Universidade Estadual Paulista – Ilha Solteira
08:20	08:40	DIN-2025-0149	Band structure of 2d metamaterial sandwich panels for aeronautical applications	Marvin Sales	Instituto Federal de Educação, Ciência e Tecnologia do Maranhão
08:40	09:00	DIN-2025-0106	A piezoelectric metastructure interleaving linear and nonlinear oscillators	Luan Angelino	Escola de Engenharia de São Carlos da Universidade de São Paulo
09:00	09:20	DIN-2025-0137	Rainbow metastructure for vibration attenuation in a crankshaft with non-constant inertia	Nícolas Dias	Universidade de Brasília
09:20	09:40	DIN-2025-0029	Topology optimization of viscoelastic local resonators for the vibration control of sandwich metastructures	Carlos Andrés Velásquez	Escola de Engenharia de São Carlos da Universidade de São Paulo
09:40	10:00	DIN-2025-0148	An investigation on metamaterials for vibration attenuation in pipes conveying fluid	Lucas Mauro da Silva	Universidade de Brasília
10:00 10:30 Coffee-break / Posters session					
Technical Session 10: Fluid-structure interaction, acoustics and vibroacoustics					
Chair: Celso Pesce					
10:30	10:50	DIN-2025-0218	Towing dynamics of variable buoyancy anchors for floating offshore wind applications	Marcin Kapitaniak	University of Aberdeen
10:50	11:10	DIN-2025-0095	Parametric analysis of phenomenological models to describe vortex-induced vibration	Filipe Eduard Ossege	Universidade de Brasília
11:10	11:30	DIN-2025-0161	Dynamics of a nonlinear shallow-draft floating offshore wind turbine and its towing operations	Alicia Terrero-Gonzalez	University of Aberdeen
11:30	11:50	DIN-2025-0054	Uncertainty analysis of thiele-small parameter variations in electroacoustic active absorbers due to temperature effects	Leonardo Ferreira	Université de Franche-Comté – Supmicrotech
11:50	12:10	DIN-2025-0076	Dynamic response of hypersonic vehicle cavities subjected to acoustic random loads	Tiago de Araujo	Instituto de Aeronáutica e Espaço
12:10	12:30	DIN-2025-0010	Impact of actuator dynamics on human-exoskeleton interaction: an in silico study of movement performance and muscle activation	Denis César Pereira	Escola de Engenharia de São Carlos da Universidade de São Paulo
12:30 14:00 Lunch					
14:00 18:00 Social Program					

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Day 4 – Thursday 13/03					
08:00	08:40	Keynote	Cloaking, vibration suppression, and energy harvesting in metastructures	Diego Misseroni	University of Trento
Technical Session 11: Smart structures					
Chair: Valder Steffen Jr					
08:40	09:00	DIN-2025-0124	Nonlinear dynamics perspective framework employed to the analysis of energy harvesters	Luã Costa	Universidade Federal do Rio de Janeiro
09:00	09:20	DIN-2025-0035	Experimental analysis of a piezoresistive nanocomposite sensor for torque detection in bolted joints.	Eduardo Preto	Universidade Estadual Paulista – Ilha Solteira
09:20	09:40	DIN-2025-0059	Experimental analysis of a current amplifier for a low-cost negative capacitor	Jaime Sanchez	Escola de Engenharia de São Carlos da Universidade de São Paulo
09:40	10:00	DIN-2025-0191	Evaluation of the input signal for designing aerodynamically efficient flapping-wing UAVs	Bianca Taís Carnielo	Universidade Estadual Paulista – Ilha Solteira
10:00 10:30 Coffee-break / Posters session					
Technical Session 12: Rotordynamics					
Chair: Ilmar Santos					
10:30	10:50	DIN-2025-0056	Dynamic behavior of orthotropic rotors with longitudinal periodicity	Rodrigo Nicoletti	Escola de Engenharia de São Carlos da Universidade de São Paulo
10:50	11:10	DIN-2025-0006	Explainable surrogate model for a rotor using bayesian neural networks, fourier series and sobol index	Helio de Castro	Universidade Estadual de Campinas
11:10	11:30	DIN-2025-0200	Numerical simulation of the flow through a hole-pattern gas seal for rotordynamic coefficients calculations	Aldemir Cavalini Jr	Universidade Federal de Uberlândia
11:30	11:50	DIN-2025-0019	Machine learning in liftoff condition monitoring	Tiago Machado	Universidade Estadual de Campinas
11:50	12:10	DIN-2025-0107	On the dynamics of rotor-bearing-foundation influenced by controllable fluid film bearings	Matías Reumay	Technical University of Denmark
12:10	12:30	DIN-2025-0007	Dynamic modeling of a planetary geared rotor system	Eduardo H. de Paula	Universidade Estadual de Campinas
12:30 14:00 Lunch					
14:00	14:40	Panel	Current and future challenges for research and teaching on dynamic problems of mechanics	P. Varoto; D. Rixen; M. Ouisse; J.R. Arruda	EESC-USP; TU Munich; UFC-FEMTO-ST; UNICAMP
Technical Session 13: Inverse problem, parameter estimation and identification					
Chair: Daniel Castello					
14:40	15:00	DIN-2025-0193	On the use physics-informed neural networks for predicting the dynamic behavior of beam structures	Rafael Teloli	Université de Franche-Comté – Supmicrotech
15:00	15:20	DIN-2025-0068	Operational modal analysis of drill-string dynamics in a test bench: on-site sensor-based observability	Rodrigo da Silva	Escola Politécnica da Universidade de São Paulo
15:20	15:40	DIN-2025-0084	Neural parameter calibration for reliable hysteresis prediction in bolted joint assemblies	Estevão de Almeida	Universidade Estadual Paulista – Ilha Solteira
15:40	16:00	DIN-2025-0212	Coupled rotor-spline dynamic under extreme speed variation of an advanced co-axial integrated electro- hydrostatic module	Jian Fu	Beihang University – Beijing - China
16:00 16:30 Coffee-break / Posters session					
Technical Session 14: Dynamics of metamaterials					
Chair: Paulo Paupitz Gonçalves					
16:30	16:50	DIN-2025-0188	An experimental investigation on locally resonant metamaterial for vibration attenuation in rotors	Adriano Fabro	Universidade de Brasília
16:50	17:10	DIN-2025-0064	Exploring inertial amplification mechanism in finite mono-coupled periodic structures	Gabriel Moimás	Universidade Estadual Paulista – Bauru
17:10	17:30	DIN-2025-0001	Component mode synthesis methods applied to periodic and quasi-periodic viscoelastic metastructures	Marcelo Trindade	Escola de Engenharia de São Carlos da Universidade de São Paulo
17:30	17:50	DIN-2025-0192	Nonlinear metastructures for vibration attenuation in rotors	André T. Brandão	Universidade de Brasília
17:50 19:30 CDIN Meeting					
20:00 22:30 DINAME Special Dinner					

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Day 5 – Friday 14/03						
Technical Session 15: Rotordynamics						
Chair: Rodrigo Nicoletti						
08:00	08:20	DIN-2025-0053	Failure signatures identification in rotors: a similarity-based modeling using a comprehensive database	Iago Almeida		Universidade Estadual de Campinas
08:20	08:40	DIN-2025-0164	Control of a rotating shaft supported by magnetic bearings using a kriging siso design	Maria Carolina Santos		Universidade Federal de Uberlândia
08:40	09:00	DIN-2025-0066	Towards a multiphysical model of a flywheel energy storage system – focusing on the thermal effects in the dynamics of the system	Bruno Rende		Technical University of Denmark
09:00	09:20	DIN-2025-0122	Evaluation of the dynamic behavior of a rotating system on a nonlinear support structure under different loads	Vitor Martini		Universidade Estadual de Campinas
09:20	09:40	DIN-2025-0081	Enhancing radial air foil bearings with air injectors and piezoelectric actuators: experimental presentation	Janus Jensen		Technical University of Denmark
09:40	10:00	DIN-2025-0067	Development of a hardware-in-the-loop test bench for dynamic load emulation of electric vehicles	Flavio Trigo		Escola Politécnica da Universidade de São Paulo
10:00	10:30	Coffee-break				
Technical Session 16: Control, robotics and mechatronic systems						
Chair: Flavio Trigo						
10:30	10:50	DIN-2025-0015	Experimental investigation of a dual-loop control strategy for a flexible link parallel manipulator 3RRR	Renan Geronel		Escola de Engenharia de São Carlos da Universidade de São Paulo
10:50	11:10	DIN-2025-0183	Use of metamaterials to reduce vibrations in wind towers with soil-structure interaction	Vinicius Borges		Universidade de Brasília
11:10	11:30	DIN-2025-0052	A comparative examination of the benefits of projective geometric algebra for formulating and simulating kinematic models of rigid robotic mechanisms	João Vitor Fraga		Escola Politécnica da Universidade de São Paulo
11:30	11:50	DIN-2025-0133	Drone motor identification based on online air density estimation constrained to communication protocol delay	André Hernandes		Universidade Federal de São Carlos
11:50	12:10	DIN-2025-0178	An approach to l-ded process control through printing distance estimation using a temporal cnn based model	Leonel Balbino		Universidade Federal do Paraná
12:10	12:30	Closing				

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POSTERS SESSIONS

Day 1 – Monday 10/03 – Morning

10:00	10:30	DIN-2025-0044	On the correlation between the underwater sound attenuation of barite sediment and its compaction	Alexandre Alves	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0013	Structural health monitoring system of wind turbine blades	Felipe Cassiano Chagas	Universidade Federal de Minas Gerais
10:00	10:30	DIN-2025-0180	From field data to load: an overview on computational simulation with hybrid modeling and systems integrations to aid design of electromechanical power tools	Matheus de Moraes	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0005	Design of a rotational actuator for oscillatory variation of airfoil angle of attack in wind tunnel tests	Roberto W. Bressan Jr	Universidade Estadual Paulista - São João da Boa Vista
10:00	10:30	DIN-2025-0025	Dynamic mechanical analysis auxetic structure under impact loading	Marcelo Martins	SENAI – São Paulo
10:00	10:30	DIN-2025-0151	Comparison of correlation metrics as objective functions for damping factor inverse analysis	Kevin Marinho	Universidade Estadual Paulista - São João da Boa Vista
10:00	10:30	DIN-2025-0089	An open-source software for rotordynamics	Jessica Santos	Universidade Federal de Uberlândia

Day 1 – Monday 10/03 – Afternoon

16:00	16:30	DIN-2025-0115	An experimental study on leak location in buried water pipe using ground surface vibration analysis and neural networks	Vinícius Salmazo	Universidade Estadual Paulista – Ilha Solteira
16:00	16:30	DIN-2025-0090	Multiaxial fatigue analysis in drill-string subject to combined loadings	Thiago Ritto	Universidade Federal do Rio de Janeiro
16:00	16:30	DIN-2025-0073	Intensity of fault prediction in rotating machines through synthetic data, lstm, and ann integration	Alex do Pilar	Universidade Federal do Paraná
16:00	16:30	DIN-2025-0027	Applying statistical methods and machine learning techniques for the estimation of residual life in industrial assets affected by corrosion phenomena	Davi Judá Fraga	Universidade Federal de Uberlândia
16:00	16:30	DIN-2025-0140	Evaluation of the comfort of the crew of the tam 2c main battle tank (mbt) of the argentine army	Ricardo da Costa Neto	Instituto Militar de Engenharia
16:00	16:30	DIN-2025-0201	Flexibility matrices accounting for structural geometric nonlinearity in wing load prediction	Orlando G. Almeida	Instituto Tecnológico de Aeronáutica
16:00	16:30	DIN-2025-0008	Study of scaled wing/blades prototypes for structural, aerodynamic and aeroelastic experiments.	Giulia Maccarone	Universidade Estadual Paulista - São João da Boa Vista

Day 2 – Tuesday 11/03 – Morning

10:00	10:30	DIN-2025-0147	On the feasibility of co2 capture from the atmosphere by the thermoacoustics mixture separation	Gabriel Pastori	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0032	Clustering-based domain adaptation methodology for unsupervised gearbox fault diagnosis under variable speed conditions	Isnardo Rodriguez	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0038	Influence of hydrodynamic bearings on a multi-shaft dynamic system of a horizontal axis wind turbine	João Henrique de Pontes	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0036	A practical application to subtle mechanical vibrations analysis using computer vision and digital video processing techniques	Danielson Kaio Freitas	Universidade Federal do Rio Grande do Norte
10:00	10:30	DIN-2025-0205	Control of circumferential vibrations in shell-type structures using dynamic neutralizers: numerical simulations for application in industrial piping	Bruno Prado	Universidade Federal do Paraná
10:00	10:30	DIN-2025-0022	Effect of cavitation on the dynamic performance of lubricated cylindrical bearings	Natália Ferreira	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0111	Topology optimization for frequency analysis using the beso method for 3d printed structures	Leonardo Avane	Faculdade de Tecnologia SENAI "Roberto Mange" – Campinas

Day 2 – Tuesday 11/03 – Afternoon

16:00	16:30	DIN-2025-0189	Study of modal characteristics of a discrete variable stiffness composite plate	João Pedro Silva	Universidade Estadual Paulista - São João da Boa Vista
16:00	16:30	DIN-2025-0028	Edge analytics: a framework for anomaly detection in rotating machinery	Eduardo Gouveia	Universidade Federal de Uberlândia
16:00	16:30	DIN-2025-0216	Probabilistic approach of uncertainties for structural dynamics of pressurized composite cylinders	Juan Brazalez	Instituto Tecnológico de Aeronáutica
16:00	16:30	DIN-2025-0215	Influence of the acoustics system when recording classical guitar en a small room	Mário Pérez	Universidade Federal de Uberlândia
16:00	16:30	DIN-2025-0162	On the dynamics of a piezoelectric metamaterial considering nonlinear effects	Murilo Faria	Escola de Engenharia de São Carlos da Universidade de São Paulo
16:00	16:30	DIN-2025-0145	How to use oma (operational modal analysis) for turbomachinery: part 3	Adhemar Castilho	Petróleo Brasileiro S.A.
16:00	16:30	DIN-2025-0077	Numerical-experimental analysis of the dynamic behavior of a composite panel in the pre and post-buckling regimes	Lucas Giovanetti	Instituto Tecnológico de Aeronáutica

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POSTERS SESSIONS

Day 3 – Wednesday 12/03 – Morning

10:00	10:30	DIN-2025-0219	A step towards dimensioning acoustic absorption for a low budget home studio	Mário Pérez	Universidade Federal de Uberlândia
10:00	10:30	DIN-2025-0154	Parametric sensitivity analysis on the dynamic response of multi-shaft systems	Carlos Eduardo de Souza	Universidade Estadual de Campinas
10:00	10:30	DIN-2025-0012	Exploring swing phase dynamics in human gait using optimal control-based computational simulation	Denis César Pereira	Escola de Engenharia de São Carlos da Universidade de São Paulo
10:00	10:30	DIN-2025-0132	Impact of exoskeletons on neuromusculoskeletal dynamics during gait: a simulation approach	Denis César Pereira	Escola de Engenharia de São Carlos da Universidade de São Paulo
10:00	10:30	DIN-2025-0033	Vibrational analysis of 4d seismic equipment	Victor Machado	Centro Universitário SENAI CIMATEC – Bahia
10:00	10:30	DIN-2025-0185	On the electrical power from photovoltaic cells to increase flight time of flapping-wing uavs	Vítor Marchiori	Universidade Estadual Paulista – Ilha Solteira
10:00	10:30	DIN-2025-0118	Dynamic analysis of periodic supports coupling in automobile suspension	Alexandre C. Ramos	Universidade Federal de Sergipe

Day 4 – Thursday 13/03 – Morning

10:00	10:30	DIN-2025-0079	Damage detection and structural health monitoring of overhead power transmission lines based on vibration fatigue tests	Carlos Alberto Cadamuro	Universidade Federal do Paraná
10:00	10:30	DIN-2025-0101	Passive fault tolerant control of quadrotors using nonlinear controller: an experimental approach	Leonardo da Rocha	Universidade Federal de Itajubá
10:00	10:30	DIN-2025-0184	Dynamic and aerodynamic balancing of rotors in helicopters: case study applied to real aircraft	Mariana Silva	Universidade Estadual Paulista - São João da Boa Vista
10:00	10:30	DIN-2025-0116	Analysis of natural frequencies and vibration modes in axially functionally graded cantilever beams using integral transforms	Gianfranco Stieven	Universidade Federal do Rio de Janeiro
10:00	10:30	DIN-2025-0187	Effects of the stiffness and damping coefficients of a plain seal on the dynamic behavior of a rotor	Kaïque César Chagas	Universidade Federal de Uberlândia
10:00	10:30	DIN-2025-0159	Investigation of nonlinear cubic stiffness effects in aeroelasticity of fixed root wings	Lucas Resende	Universidade de Brasília
10:00	10:30	DIN-2025-0197	Evaluating edge detection filters for preprocessing in railway track damage detection using cnns	Bruno dos Santos	Universidade Estadual Paulista – Ilha Solteira

Day 4 – Thursday 13/03 – Afternoon

16:00	16:30	DIN-2025-0127	A framework for designing the electronic differential of an electric vehicle using carsim/simulink	Felipe Guimarães	Escola de Engenharia de São Carlos da Universidade de São Paulo
16:00	16:30	DIN-2025-0181	Full range fatigue life modelling with double logistic function	Diogo Karmouche	Universidade Estadual Paulista – Ilha Solteira
16:00	16:30	DIN-2025-0195	Determination of the dynamic coefficients of a two-axial groove journal bearing via cfd	Fernanda Rossi	Universidade Federal de Uberlândia
16:00	16:30	DIN-2025-0210	Fault diagnosis of rotating machines using mathematical model and differential evolution algorithm	Fabício Sfalsin	Universidade Federal de Uberlândia
16:00	16:30	DIN-2025-0109	Test bench assembly for validation of a structural health monitoring system on a flywheel energy storage rotor	Pedro Cimini	Universidade Federal de Minas Gerais
16:00	16:30	DIN-2025-0065	Unsupervised fault classification applied in rotating machines using a digital twin and an artificial intelligence-based approach	Letícia Araújo	Universidade Federal de Uberlândia
16:00	16:30	DIN-2025-0121	Structural optimization of rotary-wing drone by periodic resonators metamaterials	Alexandre C. Ramos	Universidade Federal de Sergipe