

2º Congreso de Dinámica Estructural. Escuela Politécnica de Ingeniería de Gijón. 22-23 Julio 2021

JUEVES 22 de Julio 2021

8:30-9:00	REGISTRO DE PARTICIPANTES	
9:00-9:30	INAUGURACIÓN DEL CONGRESO	Autores/Moderador
SESIÓN TÉCNICA 1: Dinámica analítica y computacional I		MODERADO POR: Antolín Lorenzana Ibán
9:30-9:50	Obtaining a FEM-LESS physical model of a structure. A case study	A. Magdaleno, C. Peláez, A. Lorenzana
9:50-10:10	Application of semi-analytical methods to hybrid simulation of beam-like structures with vibration absorbers under moving inertial loads	J. Ramírez-Senent, J. H. García-Palacios, I. Muñoz Díaz, C. Zanuy
10:10-10:30	Analysis of dynamic response in structures with neuronal network	M.B. Prendes Gero, J. Gracia Rodríguez, I. Álvarez Fernández, C. González Nicieza, C. Rodríguez Pereira
10:30-10:50	Low-cost arduino-based horizontal sensor and data acquisition system for low-level ambient vibration measurements	J. C. Galván, L. A. Padrón, R. Quevedo-Reina, F. J. Auyanet, G. M. Álamo
10:50-11:30	PAUSA-CAFÉ	
11:30-12:30	SESIÓN PLENARIA 1: Comportamiento dinámico de chimeneas industriales de obra de fábrica reforzadas de TRM.	Prof. Salvador Ivorra Chorro
SESIÓN TÉCNICA 2: Dinámica analítica y computacional II		MODERADO POR: Pedro Galván
12:30-12:50	Modal mass in systems with two parts of different mass-density	R. Stufano, A. Fraddosio, M. Aenlle, F. Pelayo, R. Brincker
12:50-13:10	Modal mass in constant mass-density systems	R. Stufano, A. Fraddosio, M. Aenlle, F. Pelayo, R. Brincker
SESIÓN TÉCNICA 3: Ingeniería sísmica		MODERADO POR: Pedro Galván
13:10-13:30	Magneto rheological fluids in civil engineering	A. Vázquez Greciano, J. I. Hernando García, J. Ortiz Herrera, A. Aznar López
13:30-13:50	Reinforcement of adobe construction damaged by seismic loads	A. Vázquez Greciano, A. Aznar López
13:50-16:00	PAUSA PARA COMER	
SESIÓN TÉCNICA 4: Dinámica ferroviaria		MODERADO POR: José M. Goicolea
16:00-16:20	Railway induced vertical vibrations in two-span continuous bridges	M.D. Martínez-Rodrigo, A. Andersson, C. Pacoste, R. Karoumi
16:20-16:40	Track-bridge interaction in railway bridges composed by single-track adjacent decks using 3D FE models	J.C. Sánchez-Quesada, E. Moliner, A. Romero, P. Galván, M.D. Martínez Rodrigo
16:40-17:00	Ballast track-bridge interaction in single-track railway bridges of different typologies	J. Chordà-Monsonís, M.D. Martínez-Rodrigo, P. Galván, A. Romero, E. Moliner
17:00-17:20	Dynamic analysis of a railway bridge with tuned vibrations absorbers subjected to high speed train load models	J. Naranjo-Pérez, C. Gallegos-Calderón, J. M. Goicolea, I. Muñoz Díaz
17:20-17:50	PAUSA-CAFÉ	
SESIÓN TÉCNICA 5: Estructuras marinas		MODERADO POR: F. Pelayo
17:50-18:10	Dynamic analysis of floating breakwaters: A case study	A.J. Cebada-Relea, M. López, M. Aenlle, R. Claus
18:10-18:30	Motion and dynamic response approach for floating photovoltaic structures under marine loads	R. Claus, M. López, Z. A. Garrastacho, O. Simancas
20:00-23:00	CENA-ESPICHA	

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SESIÓN TÉCNICA 6: Control de Vibraciones I		MODERADO POR: María Dolores Martínez Rodrigo
9:00-9:20	Composite floor beams with constrained layer damping: Experimental tests on reduced scale models	C. M. C. Renedo, W. P. Ortega, I. Muñoz Díaz, J.H.García-Palacios
9:20-9:40	Semi-active tuned mass damper: Magnetorheological damper identification and performance evaluation	C. A. Barrera-Vargas, I. Muñoz Díaz, J.H. García-Palacios, J.M. Soria
9:40-10:00	Design, implementation and experimental validation of an active mass damper for vibration mitigation in slender structures using a low-cost processor	C. Peláez, A. Magdaleno, A. Lorenzana
10:00-10:20	Parametrization of a telescope mount with PYANSYS for initial modal performance exploration	C. Rodríguez, J. Gracia Rodríguez, A Ranjbar
10:20-10:40	Kalman-based virtual sensing for structural health monitoring	B. Mora, J. Basurko, U. Leturiondo, J. Albizuri
10:40-11:30	PAUSA-CAFÉ	
11:30-12:30	SESIÓN PLENARIA 2: Vibration-based SHM of transportation and energy infrastructures.	Prof. Álvaro Cunha.
SESIÓN TÉCNICA 7: Control de Vibraciones II		MODERADO POR: Manuel Aenlle
12:30-12:50	Analysis and correction of vibrations generated by a plastic bag production machine	A. Kharazian, F. López-Almansa
12:50-13:10	Operational modal analysis for buildings efficient seismic damage identification	J.P. Reyes, G. Valdebenito, F. López-Almansa
SESIÓN TÉCNICA 8: Dinámica de puentes		MODERADO POR: Manuel Aenlle
13:10-13:30	Numerical modelling and modal analysis of the pedestrian footbridge at the Milan's campus	N. García-Fernández, M. Rocío Quintana Camporro, F. Pelayo, M. Aenlle
13:30-13:50	Influence of passive and active pedestrians on the dynamic parameters of a lightweight FRP footbridge	C. Gallegos-Calderón, C.M.C. Renedo, J. M. Goicolea, J.H. García-Palacios, I. Muñoz Díaz
13:50-14:10	ASAMBLEA Y CLAUSURA CONGRESO	
14:10-16:00	PAUSA PARA COMER Y DESPEDIDA	