

3rd Workshop on
Dynamics, stability and control of flexible structures
 Sperlonga, May 28-29, 2015

THURSDAY – May 28		
SESSION	TITLE	SPEAKER
	Aerodynamics	
15.00 – 17.00	Effect of the Aerodynamic-Induced Parametric Excitation on the Longitudinal Stability of Hovering MAVs/Insects	<i>Ali H. Nayfeh</i>
	On the rain-wind induced oscillations of elastic structures: Modelling and mathematical analysis	<i>Wim T. van Horssen</i>
	Aeroelastic instability of slender elements	<i>Giuseppe Piccardo</i>
	Preliminary thoughts towards a nonlinear model for the dynamic analysis of the mast pumping phenomenon in sailing boats	<i>Marco Lepidi</i>
	Modelling	
	Spatial resolution of wrinkle patterns in thin elastic sheets	<i>David Steigmann</i>
	Fracture in deformable bodies using generalized automata: description of the model and exemplary results	<i>Francesco dell'Isola</i>
	Stability and post-bifurcation response of a Mooney-Rivlin elastic solid subject to dead-load surface tractions	<i>Pilade Foti</i>
Modal analysis of strongly curved beams by an isogeometric strategy	<i>Antonio Cazzani</i>	
17.00 – 17.30	Coffee Break	
	Control	
17.30 – 18.30	Morphing of transient displacement or stress fields in force loaded solids and structures by smart actuation	<i>Hans Irschik</i>
	On the use of the Multiple Scale Harmonic Balance Method for NES-controlled systems	<i>Daniele Zulli</i>
	On the failure of the 'Similar Piezoelectric Control' in preventing loss of stability by nonconservative positional forces	<i>Francesco D'Annibale</i>
	Designing the control law on reduced order models of large structural systems	<i>Sara Casciati</i>

FRIDAY- May 29

SESSION	TITLE	SPEAKER
	Bifurcation	
9.00 – 11.00	Dynamics and instability of rotating drillstring	<i>Alexander K. Belyaev</i>
	Fractional Sensitivities of Semi-Simple Eigenvalues For Bifurcation Analysis	<i>Angelo Luongo</i>
	Postcritical behaviour of the Nicolai beam	<i>Manuel Ferretti</i>
	Nonlinear bifurcation scenario in atomic force microscopy	<i>Laura Ruzziconi</i>
	Dynamics I	
	Impact force riconstruction and impact location in composite plates	<i>Ugo Galvanetto</i>
	Non-linear dynamic response of a base-excited SDOF oscillator with double-side unilateral constraints: numerical and experimental investigation	<i>Paolo Baragatti</i>
	The seismic response of a multi-drum stone colonnade	<i>Dora Foti</i>
11.00 – 11.30	Coffee Break	
	Dynamics II	
11.30 – 12.15	Dynamics and identification of a damaged monumental structure under seismic actions	<i>Vincenzo Gattulli</i>
	Human-induced vibrations of footbridges	<i>Federica Tubino</i>
	Dynamics of travelling oscillator and mass by means of mixed variables	<i>Flavio Stochino</i>