

# Pre-nominated Session FSM2

## Chaos in fluid and solid mechanics

Co-Chair(s):        I. Mezic (USA)  
                         G. Rega (Italy)

Paper ID	Title	Authors
FSM2S_10070	Nonlinear Dynamics of Parametrical Excited Two - Degrees - of - Freedom Flexible Pendulum	Amir A. Zadpoor
FSM2L_10252	Nonlinear Dynamics of High - Speed Milling	Gabor Stepan, Tamas Insperger, Robert Szalai
FSM2L_10499	The Effect of Smoothing on Bifurcation and Chaos Computations in Non - Smooth Mechanics	John S. Hogan
FSM2S_10823	Attractor and Pattern Control in Nonlinear Media by Localized Defects	Sergey Vakulenko, Bogdan Kazmierczak
FSM2L_11183	A Set - Valued Force Law For Spatial Coulomb - Friction	Remco I. Leine, Christoph Glocker
FSM2S_11241	Chaotic Attractors with Long Regular Sequences	Ugo Galvanetto
FSM2S_11302	Reduction of Multidimensional Flow to Low Dimensional Map for Piecewise Smooth System Experiencing Chaos	Ekaterina E. Pavlovskaja, Marian Wiercigroch
FSM2L_11363	Numerical Detection and Continuation of Sliding Bifurcations in a Dry - Friction Oscillator	M. di Bernardo, Piotr Kowalczyk, P. Piiroinen
FSM2S_11416	On Generating Chaotic Dynamics in Nonlinear Vibrating Systems	Elzbieta Tyrkiel
FSM2S_11512	Chaos in Wave Front Propagation in Heterogeneous Media	Anatoly V. Chigarev, Yuri V. Chigarev, Aleksander Brostovich, Larysa N. Bialiatskaya
FSM2L_11535	Low - Dimensional Chaotic Dynamics in Dripping Faucets	Ken Kiyono, Tomoo Katsuyama
FSM2S_12014	Influence of Remaining Chaos on Convergence of Solutions in Time Delayed Feedback Controlled Duffing System	Kohei Yamasue, Takashi Hikiyara
FSM2L_12129	A Dynamical Systems Analysis of the Overturning of Rigid Blocks	Stefano Lenci, Giuseppe Rega

FSM2S_12468	On the Nonlinear Dynamics of Multicomponent Dynamical Systems	Igor Mezic
FSM2S_12482	Short-Time Dynamical Behavior of Fluids at the Atomic Scale	Theodoros E. Karakasidis, Antonios B. Liakopoulos
FSM2L_12674	Nonlinear Dynamics of Axially Moving Viscoelastic Strings Based on Translating Eigenfunctions	Li-Qun Chen, Neng-Hui Zhang
FSM2L_12927	Nonlinear Oscillators with Time Delays	Zbigniew Peradzynski, Jacek Kurzyna
FSM2L_12972	Non - Linear Oscillator Under Random Renewal - Driven Trains of Impulses	Radoslaw Iwankiewicz, Matilde R. Sotera