

EURODYN 2020

XI International Conference on Structural Dynamics

22-24 June 2020, Athens, Greece

Dear Colleague,

The **11th EURODYN 2020 Conference** will be held under the auspices of the **European Association for Structural Dynamics (EASD)** in Athens, Greece, from Monday 22 to Wednesday 24 June 2020 (<https://eurodyn2020.org/>)

On behalf of the organizing committee of the symposium **MS03 Dynamic Buckling**, given your expertise in the fields of Structural Stability and Nonlinear Dynamics, **we cordially invite you to submit an abstract and to attend the Conference.**

The Mini-Symposium aims at highlighting/discussing new developments in the area of nonlinear dynamics of continuous and discrete structural systems with emphasis on dynamic buckling. Although the static buckling and post-buckling behavior of structures such as bars, plates and shells have received due attention for many decades and still constitute an important research area in engineering, dynamic buckling has received much less attention. Dynamic buckling may be deleterious or advantageous, depending on the application. In the former case, it may lead to damage or collapse of the structure; in the latter case it may enable a desirable change of the structural form as in deployable and morphing structures and metamaterials.

The character of the mini-symposium is broad and may include papers of theoretical, numerical, experimental and of applied nature. In addition to dynamic buckling, topics such as nonlinear resonances, jump phenomenon in a nonlinear oscillatory system, multi-well systems and escape from potential well, dynamic instabilities of discrete and continuous systems (smooth/non-smooth), large amplitude vibrations of systems under deterministic and random loads are welcome. Solutions employing analytical, semi-analytical, or numerical approaches are expected. Experimental studies as verification of theoretical results or primary research at various scales including nano-mechanics are of particular interest. Papers dealing with application in both the classical fields of civil, mechanical, automotive, aerospace and naval engineering and emerging areas are welcome.

We would be very glad if you would accept this invitation!

Prospective authors are kindly invited to submit Abstracts using the website of the conference: <https://eurodyn2020.org/>

The abstract should include: title of the paper, authors and affiliation, abstract (200 to 300 words) and keywords (at least three) . **The deadline for abstract submission to the MS03 is 30 October, 2019.** For further information please visit the Conference web page or contact directly MS03 organizers.

We are looking forward to seeing you in Athens in June 2020.

Yours sincerely,

Paulo B. Gonçalves Pontifical Catholic University of Rio de Janeiro, Brazil paulo@puc-rio.br
Francesco Pellicano Università di Modena e Reggio Emilia, Italy francesco.pellicano@unimore.it
Carlos E. N. Mazzilli EPUSP, University of São Paulo, Brazil cenmazzi@usp.br