

## MODELING, SIMULATION AND CONTROL OF AEROSPACE AND NAVAL STRUCTURES DYNAMICS

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REYOLANDO F. BRASIL<sup>\*</sup>, ANDRÉ FENILI<sup>\*</sup>, MARCELO A. SILVA<sup>\*</sup>  
AND JOSÉ M. BALTHAZAR<sup>†</sup>

<sup>\*</sup> Federal University of ABC (UFABC)  
Al. da Universidade, São Bernardo do Campo, SP, 09606-049, Brazil  
[reyolando.brasil@ufabc.edu.br](mailto:reyolando.brasil@ufabc.edu.br)  
[andre.fenili@ufabc.edu.br](mailto:andre.fenili@ufabc.edu.br)

<sup>†</sup> Federal University of Technology - Parana (UTFPR)  
Av. Monteiro Lobato, Ponta Grossa - PR, 84016-210, Brazil  
[jmbaltha@gmail.com](mailto:jmbaltha@gmail.com)

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### ABSTRACT

The main focus of this Mini-Symposium is on the discussion of modelling, simulation and control of the dynamical behaviour of aerospace and naval structures (such as airplanes, rockets, satellites, ships, offshore structures etc.), and how these problems can be understood and solved in view of numerical and computational approaches.

Contributions pertaining to any class of mathematical problems and methods associated to the dynamics and control of aerospace and naval structures will be welcome.

It will also be welcomed theoretical and experimental investigations of these problems to validate mathematical and numerical models.

The Mini-Symposium will specially appreciate novel work on numerical methods for the analysis of the geometric and material nonlinear dynamic behaviour of these kinds of structures.

### REFERENCES

- [1] R.W. Clough and J. Penzien, *Dynamics of Structures*, 2nd Edition, Mcgraw Hill, 1993.
- [2] A. Nayfeh and D.T. Mook, *Nonlinear Oscillations*, Wiley, 1979.