

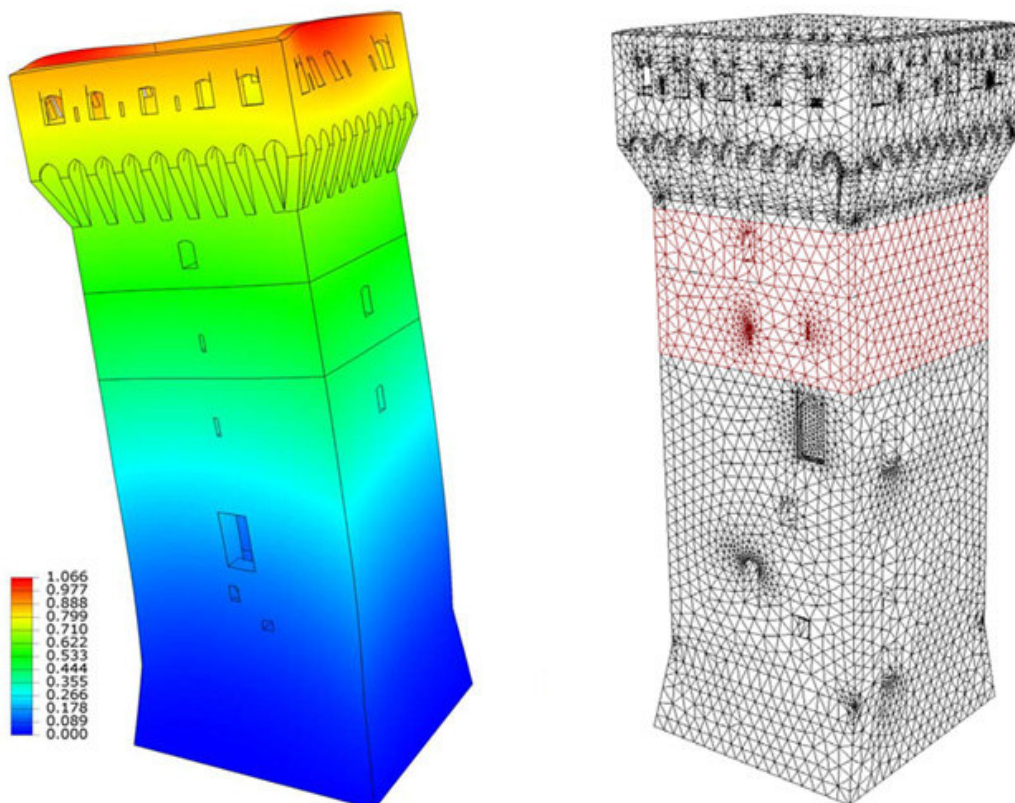
COMPDYN 2017

*6th International Conference on
Computational Methods in Structural Dynamics
and Earthquake Engineering*

15-17 June 2017 - Rhodes Island, Greece



An IACM Special Interest Conference



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Objectives

The previous meetings of COMPDYN were held in Rethymno, Crete (2007), Rhodes (2009), Corfu (2011), Kos (2013), Hersonissos, Crete (2015) and attracted more than 2.300 participants in total.

The increasing necessity to solve complex problems in Structural Dynamics and Earthquake Engineering requires the development of new ideas and innovative methods for providing accurate numerical solutions in affordable computing times.

The purpose of this Conference series is to bring together the scientific communities of Computational Mechanics, Structural Dynamics and Earthquake Engineering in an effort to facilitate the exchange of ideas in topics of mutual interest and to serve as a platform for establishing links between research groups with complementary activities. The communities of Structural Dynamics and Earthquake Engineering will benefit from this interaction, acquainting them with advanced computational methods and software tools which can highly assist in tackling complex problems in dynamic/seismic analysis and design, while also giving the Computational Mechanics community the opportunity to become more familiar with very important application areas of great social impact.

Sessions related to specific topics of the Conference will be introduced by Keynote Lectures which will be complemented by invited Minisymposia, organized by recognized experts in research areas of current interest, as well as by contributed papers.

In addition in the frame of the Conference a workshop of the EU – funded project INNOSEIS on Innovative anti-seismic devices for buildings will be organized.

Conference Topics

The conference topics include (the list is indicative):

- Aeroelasticity
- Algorithms for structural health monitoring
- Constitutive modelling under earthquake loading
- Dynamics of concrete structures
- Dynamics of coupled problems
- Dynamics of micro and macro systems
- Geotechnical earthquake engineering
- Impact dynamics
- Inverse problems in structural dynamics
- Multi-body dynamics
- Nonlinear dynamics
- Numerical simulation methods for dynamic problems
- Optimum design and control in structural dynamics and earthquake engineering
- Parallel and distributed computing – Cloud computing
- Performance-based earthquake engineering
- Reliability of dynamic systems
- Repair and retrofit of structures
- Seismic isolation
- Seismic risk and reliability analysis
- Soft computing applications
- Soil dynamics
- Soil-structure interaction
- Solution strategies for dynamic equations
- Sound and vibration
- Steel structures
- Stochastic dynamics
- Structural acoustics and vibro-acoustics
- Wave propagation

Supporting Organizations

COMPDM 2017 is one of the Thematic Conferences of the [European Community on Computational Methods in Applied Sciences \(ECCOMAS\)](#) and a Special Interest Conference of the [International Association of Computational Mechanics \(IACM\)](#).

- European Committee on Computational Solids and Structural Mechanics of ECCOMAS (ECCSM)
- European Association for Structural Dynamics (EASD)
- [European Association for Earthquake Engineering \(EAEE\)](#)
- [Greek Association for Computational Mechanics \(GRACM\)](#)
- [Hellenic Society for Earthquake Engineering \(ETAM\)](#)
- [National Technical University of Athens, Greece](#)
- Research Fund for Coal and Steel (RFCS) for the INNOSEIS Workshop

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- W. Wall, Germany
- M. Williams, UK
- F. Wuttke, Germany
- Y. Yang, Taiwan
- S. Yoshimura, Japan