

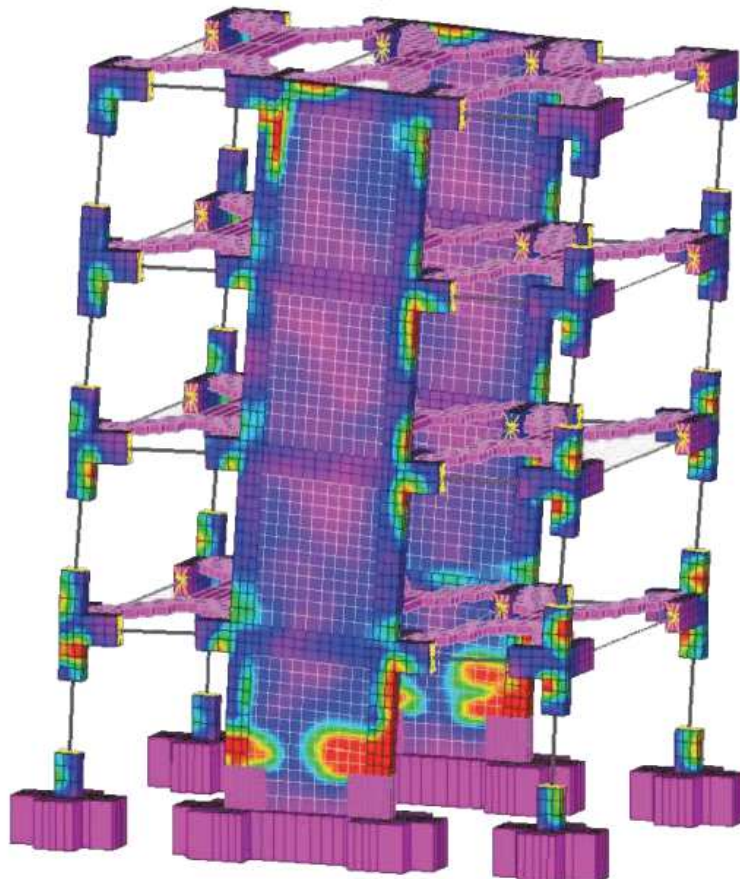
COMPDYN 2021

*8th International Conference
on Computational Methods in Structural Dynamics
and Earthquake Engineering*

PROCEEDINGS

Volume I

M. Papadrakakis, M. Fragiadakis (Eds.)



COMPdyn 2021

Computational Methods in Structural Dynamics and Earthquake Engineering

Proceedings of the 8th International Conference on Computational
Methods in Structural Dynamics and Earthquake Engineering
Streamed from Athens, Greece
28-30 June 2021

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A publication of:

Institute of Structural Analysis and Antiseismic Research
School of Civil Engineering
National Technical University of Athens (NTUA)
Greece

COMPdyn 2021

Computational Methods in Structural Dynamics and Earthquake Engineering

M. Papadrakakis, M. Fragiadakis (Eds.)

First Edition, September 2021

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ISBN (set): **978-618-85072-5-8**

ISBN (vol I): **978-618-85072-3-4**

PREFACE

This volume contains the full-length papers presented in the 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2021) that was streamed from Athens, Greece on June 28-30, 2021.

COMPDYN 2021 is one of the 32 Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS) which were held in 2021 and is also a Special Interest Conference of the International Association for Computational Mechanics (IACM). The purpose of this Conference series is to bring together the scientific communities of Computational Mechanics, Structural Dynamics and Earthquake Engineering, to act as a forum for exchanging ideas in topics of mutual interests and to enhance the links between research groups with complementary activities. We believe that the communities of Structural Dynamics and Earthquake Engineering will benefit from their exposure to advanced computational methods and software tools which can highly assist in tackling complex problems in dynamic and seismic analysis and design of structures, while also giving the opportunity to the Computational Mechanics community to be exposed to very important engineering problems of great social interest.

The COMPDYN 2021 Conference is supported by the National Technical University of Athens (NTUA), the European Association for Structural Dynamics (EASD), the European Association for Earthquake Engineering (EAEE), the Greek Association for Computational Mechanics (GRACM).

The editors of this volume would like to thank all authors for their contributions. Special thanks go to the colleagues who contributed to the organization of the Minisymposia and to the reviewers who, with their work, contributed to the scientific quality of this e-book.

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ACKNOWLEDGEMENTS

The conference organizers acknowledge the support towards the organization of the “8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, to the following organizations:

- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)
- European Association for Structural Dynamics (EASD)
- European Association for Earthquake Engineering (EAEE)
- Greek Association for Computational Mechanics (GRACM)
- Hellenic Society for Earthquake Engineering (HSEE)
- School of Civil Engineering, National University of Athens (NTUA)

Plenary Speakers and Invited Session Organizers

We would also like to thank the Plenary and Semi-Plenary Speakers and the Minisymposia Organizers for their help in the setting up of a high standard Scientific Programme.

Plenary Speakers: Sondipon Adhikari, Peter Betsch, Hong Hao, Boris Jeremic, Geert Lombaert , Gabriele Milani , Shinobu Yoshimura

Semi-Plenary Speakers: Denis Duhamel, Fernando Fraternali, Muneo Hori, Alexander Idesman , Jean-Mathieu Mencik, Giuseppe Muscolino

MS Organizers: Christoph Adam, Hamid Ahmadi, Ada Amendola, Giulia Angelucci, António Arêde, Davide Arezzo, Nikolaos P. Bakas, Rui Carneiro Barros, Manuel Braz-César, Bruno Briseghella, Eleonora Bruschi, Bruno Calderoni, Guido Camata, Luca Caracoglia, Sandro Carbonari, Donatello Cardone, Claudia Casapulla, Serena Cattari, Nicola Cavalagli, Liborio Cavaleri, Dimitrios Chronopoulos, Francesco Clementi, Marco Gaetani d’Aragona, Mario D’Aniello, Dario De Domenico, Maria Teresa De Risi, Matt DeJong, Carlo Del Gaudio, Ciro Del Vecchio, Pedro Delgado, Mariano Di Domenico, Raffaele Di Laora, Marco Di Ludovico, Luigi Di Sarno, Fabio Di Trapani, Beatrice Faggiano, Marco Filippo Ferrotto, Amedeo Flora, Antonio Formisano, Michalis Fragiadakis, Fernando Fraternali, Fabio Freddi, André Furtado, Stefano Galassi, Emanuele Gandelli, Linda Giresini, José A. González, Chiara Iacovino, Alper Ilki, Maria Iovino, Konstantinos Katakalos, Jin-Gyun Kim, Radek Kolman, Daniele Losanno, George C. Manos, Giuseppe Carlo Marano, George Markou, Angelo Masi, Konstantinos G. Megalooikonomou, Gabriele Milani, Lucia Minnucci, Fabrizio Mollaioli, Michele Morici, Lukas Moschen, Jiří Náprstek, Vanni Nicoletti, Ehsan Noroozinejad, Roger Ohayon, K. C. Park, Carlo Pettoruso, Vagelis Plevris, Maria Polese, Virginio Quaglini, Giuseppe Quaranta, Laura Ragni, Gian Andera Rassati, Paolo Ricci, Hugo Rodrigues, Emmanouil Rovithis, Juan Chiachío Ruano, Manuel Chiachío Ruano, Antonio Sandoli, Fabrizio Scozzese, Salvatore Sessa, Anastasios Sextos, P. Benson Shing, Castorina Silva Vieira, Aram Soroushian, Enrico Spacone, James Swanson, Francesca Taddei, Kumar Tamma, Marco Tanganelli, Roberto Tartaglia, Anton Tkachuk, Savvas Triantafyllou, Grigorios Tsinidis, Yiannis Tsompanakis, Enrico Tubaldi, Filippo Ubertini, Nicolò Vaiana, Humberto Varum, Michalis Vassiliou, Ilaria Venanzi, Gerardo M. Verderame, Stefania Viti, Marco Vona

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