Dr. Nikolaos P. Bakas
Lecturer of Computational Mechanics

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Dr. Nikolaos Bakas is a civil engineer, lecturer at the School of Architecture, Engineering and Geo-Environmental Sciences at Neapolis University Pafos. His studies comprise the Diploma of Civil Engineer NTUA (2003), the postgraduate Diploma Structural Analysis and Design of Structures (2005) and the PhD degree in Engineering of NTUA (2011). He has adjacently taught at the NTUA, and at Neapolis University from 2012 to the present. He has participated in a variety of research projects, at the National Technical University of Athens, in engineering software companies in Greece and at the Neapolis University, on applications of computational mechanics, finite elements, artificial neural networks, optimization algorithms, design regulations and development of computer codes. Furthermore, in research and development of professional engineering software and in the organization of scientific and technological seminars.

RESEARCH INTERESTS

The fields of his research interests concern methods for theoretical and computational structural design, optimization algorithms, data analysis, machine learning, statistics and bibliometrics. In a recent work, theoretical proofs of independence of the Ratio of Torsion (ROT) from the internal forces was given, illustrating in a closed form solution, that the increase of internal shear forces due to torsion depends only on structural topology.

PUBLICATIONS (2012-2018)

Papers in Peer Review Journals


Proceedings / Presentations in Scientific Conferences


2. Nikolaos Bakas, John Bellos: *Theoretical and numerical findings on the redundant torsional stresses*. 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering 2017, Rhodes island, Greece; 06/2017


