

Vasiliki Tsotoulidi

Phd Student at National Technical University of Athens

Research and interests

- Seismic Pounding
- Dynamic Analysis – Inelastic Response
- Earthquake Engineering
- Impact
- Collision Shear Walls
- Material Constitutive Modelling
- Finite Element Method
- Composite Materials
- Software Engineering

Education

- Ph.D. Candidate Civil Engineering, NTUA – School of Civil Engineering, Greece.
- M.Sc. Computational Mechanics, NTUA – School of Chemical Engineering, Greece.
- M.Sc. ADERS, NTUA – School of Civil Engineering, Greece
- M.Eng. Civil Engineering, University of Thessaly – School of Civil Engineering, Greece.
- B.Sc. Civil Engineering, University of Thessaly– School of Civil Engineering, Greece.

Selected publications

- Panagouli, O. K., Margaronis, K., & **Tsotoulidou, V.** (2020). A multiscale model for thermal contact conductance of rough surfaces under low applied pressure. *International Journal of Solids and Structures*.
- G. Stavroulakis, T. Christodoulou, S. Pyrialakos, **V. Tsotoulidi** and V. Papadopoulos, MTwin: Porting and customizing the computational mechanics solver MSolve for HPC execution in Microsoft Azure, in *15th World Congress on Computational Mechanics (WCCM-XV)*, *8th Asian Pacific Congress on Computational Mechanics (APCOM-VIII)*, Yokohama, Japan, 31 July – 5 August 2022.
- P. Karakitsios, **V. Tsotoulidi**, P. Kolios, G. Mprellas “Isogeometric Analysis of Industry Applications with Geomiso SEA: A New Hybrid Software for Shell Analysis”, in *8th European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS Congress*, Oslo, Norway, 5-9 June 2022.
- P. Karakitsios, **V. Tsotoulidi**, P. Kolios, G. Mprellas “Modeling and Analysis of Real World and Industry Applications with Geomiso SEA: a New Hybrid

- CAD/CAE Software for Inelastic Static Isogeometric Shell Analysis and 3D Design with Advanced Spline Techniques”, in *15th World Congress on Computational Mechanics (WCCM-XV)*, *8th Asian Pacific Congress on Computational Mechanics (APCOM-VIII)*, Yokohama, Japan, 31 July – 5 August 2022.
- P. Karakitsios, P. Kolios, **V. Tsotoulidi**, G. Mprellas “Geomiso SEA: A Cloud – based Software for Non – linear Inelastic Static Isogeometric Analysis of Complex Multi – patch Geometries with Shell Elements”, in *16th U.S. National Congress on Computational Mechanics (USNCCM16)*, Chicago, Illinois, USA, 25 – 29 July 2021.
 - O.K. Panagouli, K. Margaronis, **V. Tsotoulidou**, “A multiscale model for thermal contact conductance of rough surface under low applied pressure”, in *Proc. Eccomas Thermal Conference (COMUS 17)*, Porto, Portugal, Sept. 2017.

Reviewer in Conferences

- Reviewer in a Mini-Symposium (MS11) “Isogeometric analysis: an advanced solution for industrial applications”, Panagiotis Karakitsios, Panagiotis Kolios, **Vasiliki Tsotoulidi**, in the *9th GACM Colloquium on Computational Mechanics for Young Scientists from Academia and Industry* will take place from September 21 to 23, 2022 in Essen, Germany. The colloquium is jointly hosted by the Institute of Structural Analysis of Plates and Shells and the Institute of Mechanics at the University of Duisburg-Essen.
- Reviewer in a Mini-Symposium (1200) “Modeling and Analysis of Real World and Industry Applications” in *WCCM XV-APCOM VIII 2022 Yokohama, Japan in 15th World Congress on Computational Mechanics and 8th Asian Pacific Congress on Computational Mechanics - 1218 Industrial Perspectives on Isogeometric Analysis and Design with Advanced Spline Techniques*, Panagiotis Karakitsios and **Vasiliki Tsotoulidi**.