

Καμπίτσης Ανδρέας

Διδακτικό Ερευνητικό Προσωπικό (Δ.Ε.Π.)

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Ώρες Συνεργασίας: (θα οριστούν στο άμεσο μέλλον)

Γραφείο: Κτίριο Εδρών, 5ος όροφος

Σπουδές:

Διπλωματούχος Πολιτικός Μηχανικός Ε.Μ.Π. 2009, Μεταπτυχιακό Δίπλωμα Ειδίκευσης Ε.Μ.Π. 2011, Διδακτορικό Δίπλωμα Ε.Μ.Π. 2014.

Ερευνητικά Ενδιαφέροντα:

Ανάλυση κατασκευών με Σύγχρονες Αριθμητικές Μεθόδους; Δυναμική Ανάλυση και Σχεδιασμός Υπεράκτιων και Πλωτών Κατασκευών; Ανάλυση Συστημάτων Δυναμικής και Αντισεισμικής Προστασία Κατασκευών; Υπολογιστική Δυναμική Ρευστών Πολλαπλής Κλίμακας; Προσομοίωση Συνθετών Ετερογενών Υλικών και Κατασκευών Πολλαπλών Κλιμάκων.

Διδασκαλία:

Προπτυχιακά: Μαθημάτων: Αριθμητικές Μέθοδοι Ανάλυσης Κατασκευών Πολιτικού Μηχανικού; Αριθμητικές Μέθοδοι Ανάλυσης Κατασκευών; Ελαστοπλαστικός Υπολογισμός Κατασκευών; Εφαρμοσμένη Στατική των Ισοστατικών Φορέων.

Μεταπτυχιακά: Ανάλυση Κατασκευών σε Δυναμικά φορτία (ΑΣΤΕ02)

Έρευνα

Πρωτότυπες Επιστημονικές, Ερευνητικές Εργασίες των Μελών του Ε.Σ.Δ.Κ σε έγκριτα Διεθνή Επιστημονικά Περιοδικά

* Οι δημοσιεύσεις έχουν βραβευτεί με Θωμάϊδειο Βραβείο για την πρόοδο της Επιστήμης και των Τεχνών.

1. O.E. Sapountzaki, **A.E. Kampitsis**, N.D. Lagaros (2023) "Modelling of Inelastic Pentamode-Based Bridge Bearings Using Beam Elements" *J. Civil Engineering and Construction*, 12(3), 126-141, doi.org/10.32732/jcec.2023.12.3.126
2. **A.E. Kampitsis**, K. Kapasakalis, L. Via-Estrem (2022) "An integrated FEA-CFD simulation of offshore wind turbines with vibration control systems" *Engineering Structures*, 254 113859. doi.org/10.1016/j.engstruct.2022.113859
3. K. Kapasakalis, I Antoniadis, E.J. Sapountzakis and **A.E. Kampitsis** (2021), "Vibration Mitigation of Wind Turbine Towers Using Negative Stiffness Absorbers", *J. Civil Engineering and Construction*, 10 (3), doi.org/10.32732/jcec.2021.10.3.123
4. **A.E. Kampitsis**, W. J. Kostorz, A. Muggeridge and M. Jackson (2021) "The life span and dynamics of immiscible viscous fingering in rectilinear displacements", *Phys. Fluids* 33, 096608; aip.scitation.org/doi/10.1063/5.0064955?af=R&feed=most-recent
5. **A.E. Kampitsis**, A. Adam, P. Salinas, C. Pain, A. Muggeridge and M. Jackson (2020) "Dynamic Adaptive Mesh Optimisation for Immiscible Viscous Fingering", *Computational Geoscience*. link.springer.com/article/10.1007/s10596-020-09938-5
6. **A.E. Kampitsis** and E.J. Sapountzakis (2017) "Dynamic Analysis of Beam-Soil Interaction Systems with Material and Geometrical Nonlinearities", *International Journal of Non-Linear Mechanics*, 90, 82-99. dx.doi.org/10.1016/j.ijnonlinmec.2017.01.007
7. **A.E. Kampitsis**, S.K. Giannakos, N.A. Gerolymos and E.J. Sapountzakis (2015) "Soil-Pile Interaction Considering Structural Yielding: Numerical Modeling and Experimental Validation", *Engineering Structures*, 99, 319-333. sciencedirect.com/science/article/pii/S0141029615003156
8. E.J. Sapountzakis, I.C. Dikaros, **A.E. Kampitsis**, A.D. Koroneou (2015) "Nonlinear Response of Wind Turbines under Wind and Seismic Excitations with Soil-Structure Interaction", *Journal of Computational and Nonlinear Dynamics-ASME*, 10(4), doi:10.1115/1.4027697. computationalnonlinear.asmedigitalcollection.asme.org/article.aspx
9. **A.E. Kampitsis** and E.J. Sapountzakis (2014) "Geometrically Nonlinear Inelastic Analysis of Timoshenko Beams on Inelastic Foundation" *Computer Modeling in Engineering & Science*, 103 (6), 367-409. techscience.com/doi/10.3970/cmcs.2014.103.367.html
10. * **A.E. Kampitsis**, E.J. Sapountzakis, S.K. Giannakos and N.A. Gerolymos (2013) "Seismic Soil-Pile-Structure Kinematic and Inertia Interaction - A New Beam Approach", *Soil Dynamics and Earthquake Engineering*, 55, 211-224. sciencedirect.com/science/article/pii/S0267726113002169

11. *E.J. Sapountzakis and **A.E. Kampitsis** (2013) “Inelastic Analysis of Beams on Two-Parameter Tensionless Elastoplastic Foundation”, *Engineering Structures*, 48, 389-401. <http://www.sciencedirect.com/science/article/pii/S0141029612004907>
12. *E.J. Sapountzakis and **A.E. Kampitsis** (2012) “A BEM Approach for Inelastic Analysis of Beam-Foundation Systems under Cyclic Loading” *Computer Modeling in Engineering & Science-CMES*, 87(2), 97-124. <http://www.techscience.com/doi/10.3970/cmes.2012.087.097.html>
13. E.J. Sapountzakis and **A.E. Kampitsis** (2012) “Nonlinear Dynamic Analysis of Shear Deformable Beam-Columns on Nonlinear 3-Parameter Viscoelastic Foundation Part II: Applications and Validation”, *Journal of Engineering Mechanics (ASCE)*, 139(7), 897-902. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)EM.9](http://ascelibrary.org/doi/abs/10.1061/(ASCE)EM.9)
14. E.J. Sapountzakis and **A.E. Kampitsis** (2012) “Nonlinear Dynamic Analysis of Shear Deformable Beam-Columns on Nonlinear 3-Parameter Viscoelastic Foundation Part I: Theory and Numerical Implementation”, *Journal of Engineering Mechanics (ASCE)*, 139(7), 886-896. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)EM.1943-7889.0000549](http://ascelibrary.org/doi/abs/10.1061/(ASCE)EM.1943-7889.0000549)
15. *E.J. Sapountzakis and **A.E. Kampitsis** (2011) “Nonlinear Response of Shear Deformable Beams on Tensionless Nonlinear Viscoelastic Foundation under Moving Loads”, *Journal of Sound and Vibration*, 330, 5410–5426. <http://www.sciencedirect.com/science/article/pii/S0022460X1100486X>
16. E.J. Sapountzakis and **A.E. Kampitsis** (2011) “Nonlinear Analysis of Shear Deformable Beam-Columns Partially Supported on Tensionless Three-Parameter Foundation”, *Archive of Applied Mechanics*, 81(12), 1833-1851. <http://link.springer.com/article/10.1007/s00419-011-0521-4>
17. *E.J. Sapountzakis and **A.E. Kampitsis** (2010) “Nonlinear Dynamic Analysis of Timoshenko Beam-Columns Partially Supported on Tensionless Winkler Foundation”, *Computers & Structures*, 88, 1206-1219. <http://www.sciencedirect.com/science/article/pii/S0045794910001525>
18. E.J. Sapountzakis and **A.E. Kampitsis** (2010) “Nonlinear Analysis of Shear Deformable Beam-Columns Partially Supported on Tensionless Winkler Foundation”, *International Journal of Engineering, Science and Technology (IJEST)*, 2(4), 31-53. <http://www.ijest-ng.com/vol2-no4-2010.html>

Έρευνα

Βραβεία – Ανγώριση Ερευνητικού Έργου

Αναγνώριση δημοσιευμένου έργου στο Google Scholar:

<https://scholar.google.com/citations?hl=en&user=6mq4lUYAAAAJ>

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Δημόσια Παρουσία

Ανακοινώσεις σε Επιστημονικά Συνέδρια

1. **A.E. Kampitsis**, K. Kapasakalis, E.J. Sapountzakis (2022), "Vibration Mitigation Performance of On- and Off-shore Wind Turbine Towers", 3rd Int Conf on Natural Hazards & Infrastructure , 5-7 July, Athens. **(Invited Presentation)**
2. **A.E. Kampitsis**, A.H. Muggeridge and M.D. Jackson (2021), "The Late Time Behaviour of 3D Immiscible Viscous Fingering Instabilities", 13 – 17 December, AGU Fall Meeting, New Orleans, Louisiana, USA.
3. **A.E. Kampitsis** and K. Kapasakalis (2021), "Multiple Vibration Absorbers to Mitigate Offshore Wind Turbine Vibrations", 10th GRACM, 5-7 July, Athens.
4. **A.E. Kampitsis** (2021), "Vibration Control of Offshore Wind Turbine Towers", 14th World Congress on Computational Mechanics (WCCM), 11–15 Jan. Virtual Congress.
5. **A.E. Kampitsis**, A.H. Muggeridge, M.D. Jackson (2020) "Dynamic Adaptive Mesh Optimization in High Performance Parallel Computing for 3D Simulation of Immiscible Viscous Fingering". Better Modelling of IOR, Tulsa, USA. **(Invited Presentation)**
6. E.J. Sapountzakis and **A.E. Kampitsis** (2020), "Computational Modelling and Structural group", Research night, 27 Nov, NTUA, Athens
7. **A.E. Kampitsis**, P. Salinas, C.C. Pain, A.H. Muggeridge, M.D. Jackson (2019), "Mesh Adaptivity and Parallel Computing for 3D Simulation of Immiscible Viscous Fingering". Better Modelling of IOR, Pau, France. eage.eventsair.com/PresentationPortal
8. P. Salinas, **A.E. Kampitsis**, C.C. Pain, M.D. Jackson (2019), "A Parallel Load-Balancing Reservoir Simulator with Dynamic Mesh Optimisation", SPE Reservoir Simulation Conference, Texas, USA. www.spe.org/events/en/2019/conference/19rsc/reservoir-simulation-conference.html
9. **A.E. Kampitsis**, A. Farsi, J. Xiang and JP Latham **(2018)** "A finite-discrete element method for dynamic crack propagation in heterogeneous materials", ECCOMAS Conference on Computational Solid and Structural Mechanics and Conference on Computational Fluid Dynamics, 11-15 June, Glasgow, UK. www.eccomas.org/vnews/1042/eccm-ecfd-conferences
10. **A.E. Kampitsis**, J. Xiang and JP Latham **(2017)** "A Combined Finite-Discrete Element Method for Rock Fragmentation in Radial Jet Drilling" *Engineering Mechanics Institute EMI Conference of ASCE*, 4-7 June., San Diego, USA. www.researchgate.net/publication/320131101
11. **A.E. Kampitsis** and S. Triantafyllou (2016) "Coupling Phase Field Fracture - Multiscale FE Method for Dynamic Crack Propagation in Porous Media", *Engineering Mechanics Institute EMI Conference of ASCE*, 25-27 Oct., Metz, France. umi.mit.edu/EMI
12. **A.E. Kampitsis** and E.J. Sapountzakis (2016) "A Fibre Plasticity Model for the Dynamic Analysis of Wind Turbine Towers" *ECCOMAS, VII European Congress on Computational Methods in Applied Sciences and Engineering*, 5-10 June, Crete, Greece. <https://www.eccomas2016.org/proceedings/pdf/4747.pdf>
(Keynote Lecture)

13. **A.E. Kampitsis** (2015). "Analysis and Design of Next Generation Wind Turbines" European Commission, Research and Innovation, European Researchers' Night. The Averoff Building, Athens, Greece. ec.europa.eu/research/mariecurieactions/actions/european-researchers-night
14. **A.E. Kampitsis**, G.D. Panagiotakopoulos, V.K. Koumoussis, E.J. Sapountzakis (2015) "Structural Optimization Design of Wind Turbine Tower using Game Theory", *8th GRACM International Congress on Computational Mechanics*, 12-15 July, Volos, Greece. 8gracm.mie.uth.gr/Papers/Kampitsis.pdf
(Keynote Lecture)
15. **A.E. Kampitsis** and E.J. Sapountzakis (2014) "A New Computational Tool for the Inelastic Analysis of Steel Structures" *8th Hellenic National Conference of Steel Structures*, 2-4 October Tripoli Greece.
16. **A.E. Kampitsis** and E.J. Sapountzakis (2014) "Boundary Element Formulation for the Inelastic Dynamic Analysis of Beams" *Word Congress of Computational Mechanic. WCCM XI-ECCM V-ECCFD VI July 20-25, Barcelona, Spain*. congress.cimne.com/iacm-eccomas2014/admin/files/a2923.pdf
(Keynote Lecture)
17. E.J. Sapountzakis and **A.E. Kampitsis** (2013) "Cyclic Inelastic Response of Beam-Foundation Systems by BEM" *Fourteenth International Conference on Civil, Structural and Environmental Engineering Computing*, September 3-6, Cagliari, Sardinia, Italy. www.researchgate.net/publication
18. **A.E. Kampitsis**, E.J. Sapountzakis, S.K. Giannakos, N.A. Gerolymos (2013) "Seismic Soil-Pile Kinematic and Inertia Interaction — 3D versus Beam Modeling" *4th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering –COMDYN*, June 12-14, Kos, Greece. compdyn2013.org **(Keynote Lecture)**
19. E.J. Sapountzakis, I.C. Dikaros, **A.E. Kampitsis**, G.D. Panagiotakopoulos (2013) "Nonlinear Response of Wind Turbine Towers under Wind and Seismic Excitations" *10th HSTAM International Congress o Mechanics*, May 25-27, Chania, Crete, Greece. www.10hstam.tuc.gr
20. E.J. Sapountzakis and **A.E. Kampitsis** (2012) "Nonlinear Seismic Response Analysis of Piles in Nonlinear Viscoelastic Foundation" *Proc. of the 6th European congress on computational methods in applied sciences and engineering (ECCOMAS)*, September 10-14, Vienna, Austria. www.researchgate/287363245
21. E.J. Sapountzakis and **A.E. Kampitsis** (2012) "Inelastic Analysis of Beams on Two Parameter Elastoplastic Foundation" *Proc. of the BeTeq12 International Conference on Boundary Element Techniques*, September 3-5, Prague, Czech Republic.
22. E.J. Sapountzakis and **A.E. Kampitsis** (2011) "Nonlinear Inelastic Analysis of Beams on Nonlinear Foundation" *Proc. of the Second Int. Conf. on Soft Computing Technology in Civil, Structural and Environmental Engineering-CSC*, 6-9 September, Chania, Crete, Greece. researchgate/kampitsis/269133131

23. E.J. Sapountzakis and **A.E. Kampitsis** (2011) "Nonlinear vibrations of piles in viscoelastic foundation" *Proc. of the 8 Int. Conf. on Earthquake Resistant Engineering Structures-ERES, 7-9 September, Chianciano Terme, Italy.* www.researchgate.net/publication/271428641
(Keynote Lecture)
24. E.J. Sapountzakis and **A.E. Kampitsis** (2011) "Shear Deformable Beams on Nonlinear Viscoelastic Foundation under Moving Loading" *Proc. of the IV International Conference on Computational Methods for Coupled Problems in Science and Engineering - COUPLED PROBLEMS, 20-22 June, Kos, Greece.* www.researchgate.net/publication/256800216
25. E.J. Sapountzakis and **A.E. Kampitsis** (2010) "Nonlinear Analysis of Shear Deformable Beam-Columns Partially Supported on Tensionless Winkler Foundation" *Proc. of the BeTeq10 International Conference on Boundary Element Techniques, July 12-14, Berlin, Germany.* <https://www.researchgate.net/publication/272459284>
26. E.J. Sapountzakis and **A.E. Kampitsis** (2010) "Nonlinear Analysis of Shear Deformable Beam-Columns Partially Supported on Tensionless Three-Parameter Foundation" *Proc. of the CST - Tenth International Conference on Computational Structures Technology, September 14-17, Valencia Spain.*
27. E.J. Sapountzakis and **A.E. Kampitsis** (2010) "Nonlinear Dynamic Analysis of Shear Deformable Beam-Columns on Nonlinear 3-Parameter Viscoelastic Foundation" *Proc. of the ECCM IV European Conference on Computational Mechanics, May 16-21, Paris France.* **(Keynote Lecture)**
28. E.J. Sapountzakis, **A.E. Kampitsis**, A.D. Koroneou (2010) "Nonlinear Dynamic Analysis of Pile-Columns of Bridge Piers – Application in Valleybridges of Metsovo and in Metsovitikos River Bridge", *Proc. of 6th Interscientific Interuniversity Conference, The Integrated Development of Highland Areas, Metsovo, Greece, 16-19 September.*
29. E.J. Sapountzakis and **A.E. Kampitsis** (2009) "Nonlinear Dynamic Analysis of Timoshenko Beam-Columns Partially Supported on Nonlinear Elastic Foundation Including Shear Deformation Effect", *Proc. of the 3rd Greece – Japan Workshop on Seismic Design, Observation and Retrofit of Foundations, September 22-23, Santorin, Greece.* <https://dl.acm.org/citation>
30. E.J. Sapountzakis and **A.E. Kampitsis** (2009) "Nonlinear Dynamic Analysis of Timoshenko Beam-Columns Partially Supported on Elastic Foundation", *Proc. of the CMAS Computational Modeling and Advanced Simulations, June 30 July 3, Slovak University of Technology, Slovakia.*

Συμμετοχή στη διοργάνωση Επιστημονικών Συνεδρίων, Συμποσίων κτλ

Διοργάνωσε με επιτυχία τα παρακάτω Παγκόσμια Επιστημονικά Μίνι-Συμπόσια:

1. **A.E. Kampitsis**, Κ Κapasakalis, E.J. Sapountzakis (2024) "Advancements in Offshore Wind Structures", for the 9th European Conference on Computational Methods, ECCOMAS, June 3-7, Lisbon, <https://eccomas2024.org/event/area/4e9cb589-5968-11ee-a4f3-000c29ddfc0c>
2. **A.E. Kampitsis** (2019) Computational Methods on Fluid-Structure Dynamics for Multiscale Problems, International Conference on Vibration Problems (ICOVP), September 1-4, Crete, Greece. icovp2019.org/content/accepted-minisymposia
3. **A.E. Kampitsis** and I. D. Dikaros (2018) "Computational Methods for Structural Dynamics", for the 6th European Conference on Computational Methods, ECCOMAS, June 11-15, Glasgow, UK. www.eccomas.org/vnews/1042/eccm-ecfd
4. E.J. Sapountzakis and **A.E. Kampitsis** (2016) "Computational Structural Dynamics", for the 7th European Congress on Computational Methods in Applied Sciences and Engineering, June 5 - 10, Crete, Greece.
5. E.J. Sapountzakis and **A.E. Kampitsis** (2014) "Advances in Computational Structural Dynamics", for the 11th World Congress on Computational Mechanics (WCCM XI) – 5th European Conference on Computational Mechanics (ECCM V), July 20-25, Barcelona, Spain.