

## RESEARCH INTERESTS

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My research is in the broader area of geotechnical engineering and soil–structure interaction, with a focus on mitigation of natural hazards and enhancement of resilience. The cornerstone of my research philosophy lies in the combination of analytical with experimental methods, corroborated by field observation. It can be broadly categorized as follows:

### 1) Resilient Seismic Design and Preparedness

- Innovative Seismic Protection Concepts: FE modelling and dimensional analysis ([J35](#), [J43](#)); rocking-isolated bridges and frames ([J28](#), [J36](#), [J39](#), [J41](#), [J50](#), [J70](#), [J74](#)); experimental studies ([J40](#), [J44](#), [J45](#), [J56](#), [J57](#), [J61](#), [J62](#), [J63](#), [J64](#), [J75](#), [J92](#), [J93](#)); simplified methods ([J52](#), [J53](#), [J99](#)).
- Tunnels and Underground Structures: metro stations ([J3](#), [J94](#), [J104](#)); immersed tunnels ([J9](#), [J10](#)); bored tunnels un soil ([J78](#), [J79](#), [J90](#), [J97](#)); state-of-the-art review ([J91](#)).
- Site effects and ground motion characterization: 2D valley effects ([J27](#), [J42](#)); case histories ([J86](#), [J103](#)); near-fault effects ([J25](#), [J33](#), [J73](#)); combined IMs approach ([J85](#)).
- Preservation of cultural heritage: Shaking table testing of multi-drum columns and portal ([J55](#), [J59](#)); historic masonry structures subjected to tectonic deformation ([J58](#)).
- Real-time earthquake crisis management: real time seismic damage assessment of motorway bridges ([J67](#)); efficient analysis methods accounting for key structural components and soil–structure interaction ([J68](#), [J72](#), [J76](#)); pilot application ([J80](#)).

### 2) Future-oriented infrastructure

- Sustainable retrofit of bridge pilegroups: new design philosophy allowing nonlinear foundation response ([J87](#), [J102](#)), centrifuge modelling.
- Bio-inspired self-drilling probe: development of prototype, allowing autonomous subsurface movement for in-situ soil assessment in close proximity to existing structures.

### 3) Sustainable geotechnical construction

- Improved design methods: inclined piles and embedded foundations ([J13](#), [J23](#), [J46](#), [J65](#), [J81](#)). retaining structures ([J2](#), [J4](#)); reinforced earth ([J30](#))
- Foundations for renewable energy: Offshore Wind Turbine (OWT) foundations subjected to combined environmental and seismic loading, hybrid foundation concept ([J69](#)); guyed-support systems ([J82](#)); Jackets on suction caissons.
- Coping with climate change: Countermeasures for potentially unstable slopes, slope-stabilizing piles and pilegroups ([J31](#), [J38](#)); interaction of foundation–structure systems with precarious slopes ([J29](#)); structures on degrading permafrost ([J88](#)).

### 4) Faulting and its effects on structures

- Dip-slip faulting: field studies ([J7](#), [J8](#), [J14](#)); constitutive model development and validation through class “A” predictions of centrifuge tests ([J5](#), [J15](#)); shallow foundations ([J18](#), [J20](#)); caisson and piled foundations ([J32](#), [J37](#), [J48](#)); buildings and pipelines ([J89](#), [J101](#)); design methods for foundations ([J11](#), [J12](#), [J26](#)), bridges ([J17](#)), and tunnels ([J10](#), [J24](#)).
- Smart mitigation techniques: soil bentonite wall (SBW) weak wall “barrier” ([J49](#), [J71](#)); “smart” wall barrier with sacrificial members ([J77](#)).
- Strike-slip faulting: propagation and interaction with shallow foundations, combining numerical and centrifuge modelling ([J84](#)); improved MC–HS model; simplified design method for bridges ([J95](#)).

### 5) Hydromechanical processes, Liquefaction

- Tsunami-loading of coastal infrastructure: development of Miniaturized Tidal Generator – MTG ([J98](#)); Tsunami effects on breakwaters; innovative mitigation techniques.
- Scouring of bridge foundations: MTG modelling of scour processs, 3D-scanning of the scour hole, and 3D-printing of mould, used to reproduce the scour hole in a centrifuge model ([J105](#)).
- Liquefaction: Structure–Soil–Structure Interaction: Validation of numerical analysis tools against centrifuge model tests of structures on shallow foundations ([J100](#)); key modelling uncertainties and boundary effects ([J106](#)); seismic response of neighboring structures and cost-efficient measures for liquefaction mitigation at the scale of clusters of buildings.

## PUBLICATIONS

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### Refereed Journal Publications

- J106. Kassas K., Adamidis O., Anastasopoulos I. (2021), “Shallow strip foundations subjected to earthquake-induced soil liquefaction: validation, modelling uncertainties, and boundary effects”, *Soil Dynamics and Earthquake Engineering (in print)*.
- J105. Ciancimino A., Jones L., Sakellariadis L., **Anastasopoulos I.**, Foti S. (2021). “Experimental assessment of the performance of a bridge pier subjected to flood induced Scour”, *Géotechnique (in print)*.
- J104. Wu W., Ge S., Yuan Y., Ding W., **Anastasopoulos I.** (2021), “Seismic response of a cross interchange metro station in soft soil: Physical and numerical modeling”, *Earthquake Engineering and Structural Dynamics (J104)*.
- J103. Garini E., **Anastasopoulos I.**, Gazetas G., O’Riordan N., Kumar P., Ellison K., Ciruela-Ochoa F. (2020). “Discussion: Soil, basin and soil-building-soil interaction effects on motions of Mexico City during seven earthquakes”, *Géotechnique (J103)*.
- J102. Sakellariadis L., **Anastasopoulos I.**, Gazetas G. (2020). “Fukae Bridge Collapse (Kobe 1995) Revisited: New Insights”, *Soils and Foundations*, 60:1450-1467 ([J102](#)).
- J101. Fadaee M., Hashemi K., Farzaneganpour F., **Anastasopoulos I.**, Gazetas G. (2020), “3-Storey building subjected to Reverse Faulting: Analysis and Experiments”, *Soil Dynamics and Earthquake Engineering*, 138: 106297 ([J101](#)).
- J100. Kassas K., Adamidis O., Gerolymos N., **Anastasopoulos I.** (2020), “Numerical modelling of a structure with shallow strip foundation during earthquake-induced liquefaction”, *Géotechnique (J100)*.
- J99. Sieber M., Klar S., Vassiliou M.F., **Anastasopoulos I.** (2020). “Robustness of simplified analysis methods for rocking structures on compliant soil”, *Earthquake Engineering and Structural Dynamics*, 49(14): 1388-1405 ([J99](#)).
- J98. Jones L., **Anastasopoulos I.** (2019). “Miniaturised Tsunami Generator to model Tsunami Interaction with Coastal Infrastructure”, *Int. J. of Physical Modelling in Geotechnics (J98)*.
- J97. Antoniou M., Nikitas N., **Anastasopoulos I.**, Fuentes R. (2020). “Scaling laws for shaking table testing of reinforced concrete tunnels accounting for post-cracking lining response”, *Tunneling and Underground Space Technology*, 101: 103353 ([J97](#)).
- J96. Anastasopoulos P., Androutselis T., Md Tawfiq Sarwar, Ugur Eker, Sakellariadis L., Agalianos A., **Anastasopoulos I.** (2020). “Real-Time Seismic Damage Assessment of Various Bridge Types Using a Nonlinear Three-Stage Least Squares Approach”, *Journal of Infrastructure Systems*, ASCE, 26(3): 04020019 ([J96](#)).
- J95. Agalianos A., Sieber M., **Anastasopoulos I.** (2020). “Cost-effective analysis technique for the design of bridges against strike-slip faulting”, *Earthquake Engineering and Structural Dynamics (J95)*.
- J94. Wu W., Ge S., Yuan Y., Ding W., Anastasopoulos I. (2020), “Seismic response of subway station in soft soil: Shaking table testing versus numerical analysis”, *Tunneling and Underground Space Technology*, 100: 103389 ([J94](#)).
- J93. Gavras A.G., Kutter B.L., Hakhamaneshi M., Gajan S., Tsatsis A., Sharma K., Kohno T., Deng L., **Anastasopoulos I.**, and Gazetas G. (2020), “Database of rocking shallow foundation performance: Dynamic shaking”, *Earthquake Spectra (J93)*.
- J92. Hakhamaneshi M., Kutter B.L., Gavras A.G., Gajan S., Tsatsis A., Liu W., Sharma K., Pianese G., Kohno T., Deng L., Paolucci R., **Anastasopoulos I.**, and Gazetas G. (2020), “Database of Rocking Shallow Foundation Performance – Slow Cyclic and Monotonic Loading”, *Earthquake Spectra (J92)*.
- J91. Tsinidis G., de Silva F., **Anastasopoulos I.**, Bilotta E., Bobet A., Hashash Y., He C., Kampas G., Knappett J., Madabhushi G., Nikitas N., Pitilakis K., Silvestri F., Viggiani G., Fuentes R. (2020), “Seismic behaviour of tunnels: from experiments to analysis”, *Tunneling and Underground Space Technology*, 99: 10334 ([J91](#)).

- J90. Kampas G., Knappett J.A., Brown M.J., **Anastasopoulos I.**, Nikitas N., Fuentes, R. (2020) “Implications of volume loss on the seismic response of tunnels in coarse-grained soils”, *Tunneling and Underground Space Technology*, 95: 103127 ([J90](#)).
- J89. Fadaee M., Farzaneganpour F., **Anastasopoulos I.** (2020), “Response of buried pipeline subjected to reverse faulting”, *Soil Dynamics and Earthquake Engineering*, 132 ([J89](#)).
- J88. Loli M., Tsatsis A., Kourkoulis R. and **Anastasopoulos I.** (2020), “A simplified numerical method to simulate the thawing of frozen soil”, *Proceedings of the Institution of Civil Engineers – Geotechnical Engineering* ([J88](#)).
- J87. Sakellariadis L., Marin A., **Anastasopoulos I.** (2019), “Widening of existing motorway bridges: Pile group retrofit vs. nonlinear pile–soil response”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 145(12): 04019107 ([J87](#)).
- J86. Garini E., **Anastasopoulos I.**, Gazetas G. (2019), “Soil, basin, and soil–building–soil interaction effects on motions of Mexico City during seven earthquakes”, *Géotechnique* ([J86](#)).
- J85. Marin A., Truffer P.L., **Anastasopoulos I.** (2019). “Combined-intensity-measures matching approach for improved performance-based design of slopes”, *Soil Dynamics and Earthquake Engineering* ([J85](#)).
- J84. Agalianos A., de Caudron de Coquereaumont O., **Anastasopoulos I.** (2019). “Rigid slab foundation subjected to strike–slip faulting: mechanisms and insights”, *Géotechnique* ([J84](#)).
- J83. Adamidis O., Alber S., and **Anastasopoulos I.** (2019). “Assessment of Three-Dimensional Printing of Granular Media for Geotechnical Applications”, *Geotechnical Testing Journal* ([J83](#)).
- J82. Antoniou M., Gelagoti F., **Anastasopoulos I.** (2019), “A compliant guyed system for deep-sea installations of offshore wind turbines: Concept, design insights and dynamic performance”, *Soil Dynamics and Earthquake Engineering*, 119: 235-252 ([J82](#)).
- J81. Taeseri D., Laue J., **Anastasopoulos I.** (2019), “Non-linear rocking stiffness of embedded foundations in sand”, *Géotechnique*, 69(9): 767-782 ([J81](#)).
- J80. Kampas G., Knappett J.A., Brown M.J., **Anastasopoulos I.**, Nikitas N., Fuentes R. (2019), “The effect of tunnel lining modelling approaches on the seismic response of sprayed concrete tunnels in coarse-grained soils”, *Soil Dynamics and Earthquake Engineering*, 117: 122–137 ([J80](#)).
- J79. **Anastasopoulos I.**, Jones L. (2019), “On the development of novel mitigation techniques against faulting–induced deformation: “Smart” barriers and sacrificial members”, *Soil Dynamics and Earthquake Engineering*, 124: 297-306 ([J79](#)).
- J78. **Anastasopoulos I.**, Anastasopoulos P., Sakellariadis P., Agalianos A., Kourkoulis R., Gelagoti F., Gazetas G. (2018), “Development of RAPid REsponse (RARE) System for Motorway Bridges: Overview and Pilot Application to Attiki Odos Motorway”, *ISSMGE Int. Journal of Geoenvironmental Case Histories*, 4(4): 306 ([J78](#)).
- J77. Alonso-Rodriguez A., Nikitas N., Knappett J., Kampas G., **Anastasopoulos I.**, Fuentes R. (2018), “System Identification of Tunnel Response to Ground Motion Considering a Simplified Model”, *Frontiers in Built Environment*, 4:39 ([J77](#)).
- J76. Sakellariadis L., Agalianos A., **Anastasopoulos I.** (2018), “Simplified method for real-time seismic damage assessment of motorway bridges: transverse direction – accounting for abutment stoppers”, *Earthquake Engineering and Structural Dynamics*, 47:1496–1521 ([J76](#)).
- J75. Taeseri D., Laue J., Martakis P., Chatzi E., **Anastasopoulos I.** (2018), “Static and dynamic rocking stiffness of shallow footings on sand: centrifuge modelling”. *International Journal of Physical Modelling in Geotechnics*, 18(6): 315–339 ([J75](#)).
- J74. Agalianos A., Psychari A., Vassiliou M.F., Stojadinovic B., **Anastasopoulos I.** (2017), “Comparative Assessment of Two Rocking Isolation Techniques for a Motorway Overpass Bridge”, *Frontiers in Built Environment*, 3:47 ([J74](#)).

- J73. Garini E., Gazetas G., **Anastasopoulos I.** (2017), “Evidence of significant forward rupture directivity aggravated by soil response in an  $M_w6$  earthquake, and the effect on monuments”, *Earthquake Engineering and Structural Dynamics*, 46(13): 2103–2120 ([J73](#)).
- J72. Agalianos A., Sakellariadis L., **Anastasopoulos I.** (2017), “Simplified method for the assessment of the seismic response of motorway bridges: longitudinal direction– accounting for abutment stoppers”, *Bulletin of Earthquake Engineering*, 15(10): 4133–4162 ([J72](#)).
- J71. Fadaee M., Ezzatyazdi P., **Anastasopoulos I.**, Gazetas G. (2016), “Mitigation of reverse faulting deformation using a soil bentonite wall: Dimensional analysis, parametric study, design implications” *Soil Dynamics and Earthquake Engineering*, 89: 248–261 ([J71](#)).
- J70. Riahi Nouri A. **Anastasopoulos I.**, Vetr M.G., Kalantari A. (2016), “Efficiency of low-rise steel rocking frames founded on conventional and rocking foundations”, *Soil Dynamics and Earthquake Engineering*, 84: 190–203 ([J70](#)).
- J69. **Anastasopoulos I.**, Theofilou M. (2016), “Hybrid foundation for offshore wind turbines: environmental and seismic loading”, *Soil Dynamics and Earthquake Engineering*, 80: 192–209 ([J69](#)).
- J68. **Anastasopoulos I.**, Sakellariadis L., Agalianos A. (2015), “Seismic analysis of motorway bridges accounting for key structural components and nonlinear soil–structure interaction”, *Soil Dynamics and Earthquake Engineering*, 78: 127–141 ([J68](#)).
- J67. **Anastasopoulos I.**, Anastasopoulos P.Ch., Agalianos A., Sakellariadis L. (2015), “Simple method for real-time seismic damage assessment of bridges”, *Soil Dynamics and Earthquake Engineering*, 78: 201–212 ([J67](#)).
- J66. Agalianos A., Sakellariadis L. **Anastasopoulos I.**, Gazetas G. (2015), “Simplified method for seismic analysis of motorway bridges”, *International Journal of Bridge Engineering*, 3(1): 49-54 ([J66](#)).
- J65. Ntritsos N., **Anastasopoulos I.**, Gazetas G. (2015), “Static and Cyclic Undrained Response of Square Embedded Foundations”, *Géotechnique*, 65(10): 805–823 ([J65](#)).
- J64. Tsatsis A., **Anastasopoulos I.** (2015), “Performance of rocking systems on shallow improved sand: Shaking table testing”, *Frontiers in Built Environment* ([J64](#)).
- J63. Loli M., Knappett J.A., **Anastasopoulos I.**, Brown M.J. (2015), “Use of Ricker motions as an alternative to pushover testing”, *International Journal of Physical Modelling in Geotechnics*, ICE ([J63](#)).
- J62. Kokkali P., Abdoun T., **Anastasopoulos I.** (2015), “Centrifuge modeling of rocking foundations on improved soil”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE ([J62](#)).
- J61. **Anastasopoulos I.**, Drosos V., Antonaki N. (2015), “Three-storey building retrofit: rocking isolation versus conventional design”, *Earthquake Engineering and Structural Dynamics*, 44(8): 1235–1254 ([J61](#)).
- J60. Gazetas G., Zazouras O., Drosos V., **Anastasopoulos I.** (2015), “Bridge-Pier Caisson Foundations subjected to Normal and Thrust Faulting: Physical Experiments versus Numerical Analysis”, *Meccanica*, 50(2): 341–354 ([J60](#)).
- J59. Drosos V., **Anastasopoulos I.** (2015), “Experimental Investigation of the Seismic Response of Classical Temple Columns”, *Bulletin of Earthquake Engineering*, 13(1): 299–310 ([J59](#)).
- J58. Loli M., **Anastasopoulos I.**, Gazetas G. (2015), “Nonlinear Analysis of Earthquake Fault Rupture Interaction with Historic Masonry Buildings”, *Bulletin of Earthquake Engineering*, 13(1): 83–95 ([J58](#)).
- J57. Kokkali P., **Anastasopoulos I.**, Abdoun T., Gazetas G. (2014), “Static and Cyclic Rocking on Sand: Centrifuge versus Reduced-Scale 1-g Experiments”, *Géotechnique*, 64(11): 865–880 ([J57](#)).
- J56. Loli M., Knappett J.A., Brown M.J., **Anastasopoulos I.**, Gazetas G. (2014), “Centrifuge modeling of rocking–isolated inelastic RC bridge piers”, *Earthquake Engineering and Structural Dynamics*, 43(15): 2341–2359 ([J56](#)).

- J55. Drosos V., **Anastasopoulos I.** (2014), “Shaking table testing of multidrum columns and portals”, *Earthquake Engineering and Structural Dynamics, Earthquake Engineering & Structural Dynamics*, 43(11): 1703–1723 ([J55](#)).
- J54. Gazetas G., **Anastasopoulos I.**, Garini E. (2014), “Geotechnical Design with Apparent Seismic Safety Factors well-below 1”, *Soil Dynamics and Earthquake Engineering*, 57: 37–45 ([J54](#)).
- J53. Adamidis O., Gazetas G., **Anastasopoulos I.**, Ch. Argyrou (2014), “Equivalent–linear stiffness and damping in rocking of circular and strip foundations”, *Bulletin of Earthquake Engineering*, 12(3): 1177–1200 ([J53](#)).
- J52. **Anastasopoulos I.**, Kontoroupi Th. (2014), “SDOF System Rocking on Inelastic Soil: Development of Simplified Nonlinear Analysis Method”, *Soil Dynamics and Earthquake Engineering*, 56: 28–43 ([J52](#)).
- J51. **Anastasopoulos I.** (2013), “Forensic analysis of 5-storey building damaged during nearby construction”, *Engineering Failure Analysis*, 34: 252–267 ([J51](#)).
- J50. **Anastasopoulos I.**, Gelagoti F., Spyridaki A., Sideri Tz., Gazetas G. (2013), “Seismic Rocking Isolation of Asymmetric Frame on Spread Footings”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 140(1): 133–151 ([J50](#)).
- J49. Fadaee M., **Anastasopoulos I.**, Gazetas G., Jafari M.K., Kamalian M. (2013), “Soil Bentonite Wall Protects Foundation from Thrust Faulting: Analyses and Experiment”, *Earthquake Engineering and Engineering Vibration*, 12(3): 473–486 ([J49](#)).
- J48. **Anastasopoulos I.**, Kourkoulis R., Gazetas G., Tsatsis A. (2013), “Interaction of piled foundation with a rupturing normal fault”, *Géotechnique*, 63(12): 1042–1059 ([J48](#)).
- J47. Gazetas G., **Anastasopoulos I.**, Adamidis O., Kontoroupi Th. (2013), “Nonlinear Rocking Stiffness of Foundations”, *Soil Dynamics and Earthquake Engineering*, 47, 83–91 ([J47](#)).
- J46. Giannakou A., Gerolymos N., Gazetas G., Tazoh T., **Anastasopoulos I.** (2013), “Closure to Seismic Behavior of Batter Piles: Elastic Response”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 139(1): 185–187 ([J46](#)).
- J45. **Anastasopoulos I.**, Loli M., Georgarakos T., Drosos V. (2013), “Shaking Table Testing of Rocking–isolated Bridge Pier”, *Journal of Earthquake Engineering*, 17(1): 1–32 ([J45](#)).
- J44. **Anastasopoulos I.**, Kourkoulis R., Gelagoti F., Papadopoulos E. (2012), “Rocking Response of SDOF Systems on Shallow Improved Sand: an Experimental Study”, *Soil Dynamics and Earthquake Engineering*, 40: 15–33 ([J44](#)).
- J43. Kourkoulis R., **Anastasopoulos I.**, Gelagoti F., Kokkali P. (2012), “Dimensional Analysis of SDOF Systems Rocking on Inelastic Soil”, *Journal of Earthquake Engineering*, 16(7): 995–1022 ([J43](#)).
- J42. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2012), “Nonlinear Dimensional Analysis of Trapezoidal Valleys Subjected to Vertically Propagating SV Waves”, *Bulletin of the Seismological Society of America*, 102(3): 999–1017 ([J42](#)).
- J41. Kourkoulis R., Gelagoti F., **Anastasopoulos I.** (2012), “Rocking Isolation of Frames on Isolated Footings: Design Insights and Limitations”, *Journal of Earthquake Engineering*, 16 (3): 374–400 ([J41](#)).
- J40. Drosos V., Georgarakos T., Loli M., **Anastasopoulos I.**, Zarzouras O., and Gazetas G. (2012), “Soil–Foundation–Structure Interaction with Mobilization of Bearing Capacity : An Experimental Study on Sand”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 138(11): 1369–1386 ([J40](#)).
- J39. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2012), “Rocking Isolation of Low Rise Frame Structures Founded on Separate Footings”, *Earthquake Engineering and Structural Dynamics*, 41(7): 1177–1197 ([J39](#)).
- J38. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2012), “Hybrid Method for Analysis and Design of Slope Stabilizing Piles”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 138(1): 1–14 ([J38](#)).

- J37. Loli M., Bransby M.F., **Anastasopoulos I.**, Gazetas G. (2012), “Interaction of Caisson Foundations with a Seismically Rupturing Normal Fault: Centrifuge Testing versus Numerical Simulation”, *Géotechnique*, 62(1): 29–43 ([J37](#)).
- J36. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2012), “Rocking-isolated frame structures: Margins of safety against toppling collapse and simplified design approach”, *Soil Dynamics and Earthquake Engineering*, 32(1): 87–102 ([J36](#)).
- J35. **Anastasopoulos I.**, Gelagoti F., Kourkoulis R., Gazetas G. (2011), “Simplified Constitutive model for Simulation of Cyclic Response of Shallow Foundations: Validation against Laboratory Tests”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 137(12): 1154–1168 ([J35](#)).
- J34. Kouroussis G., Gazetas G., **Anastasopoulos I.**, Verlinden O., Conti C. (2011), “Discrete modelling of vertical track–soil coupling for vehicle–track dynamics”, *Soil Dynamics and Earthquake Engineering*, 31(12):1711–1723 ([J34](#)).
- J33. Garini E., Gazetas G., and **Anastasopoulos I.** (2011), “Asymmetric 'Newmark' sliding caused by motions containing severe 'directivity' and 'fling' pulses”, *Géotechnique*, 61(9): 733–756 ([J33](#)).
- J32. Loli M., **Anastasopoulos I.**, Bransby M.F., Waqas A., Gazetas G. (2011), “Caisson Foundations subjected to Reverse Fault Rupture: Centrifuge Testing and Numerical Analysis”, *J. Geotechnical and Geoenv. Engineering*, ASCE, 137(10): 914–925 ([J32](#)).
- J31. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2011), “Slope stabilizing piles and pile-groups: Parametric study and design insights”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 137(7): 663–677 ([J31](#)).
- J30. **Anastasopoulos I.**, Georgarakos T., Georgiannou V., Drosos V., Kourkoulis R. (2010), “Seismic Performance of Bar-Mat Reinforced-Soil Retaining Wall: Shaking Table Testing versus Numerical Analysis with Modified Kinematic Hardening Constitutive Model”, *Soil Dynamics & Earthquake Engineering*, 30(10): 1089–1105 ([J30](#)).
- J29. Kourkoulis R., **Anastasopoulos I.**, Gelagoti F., Gazetas G. (2010), “Interaction of Foundation–Structure Systems with Seismically–Precarious Slopes: Numerical Analysis with Strain Softening Constitutive Model”, *Soil Dynamics & Earthquake Engineering*, 30(12): 1430-1445 ([J29](#)).
- J28. **Anastasopoulos I.**, Gazetas G., Loli M., Apostolou M, Gerolymos N. (2010), “Soil Failure can be used for Earthquake Protection of Structures”, *Bulletin of Earthquake Engineering*, 8(2): 309-326 ([J28](#)).
- J27. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2010), “Seismic wave propagation in a very soft alluvial valley: Sensitivity to ground-motion details and soil nonlinearity, and generation of a parasitic vertical component”, *Bulletin of the Seismological Society of America*, 100(6): 3035–3054 ([J27](#)).
- J26. **Anastasopoulos I.**, Antonakos G., Gazetas G. (2010), “Slab Foundation subjected to Thrust Faulting: Parametric Analysis and Simplified Design Method”, *Soil Dynamics & Earthquake Engineering*, 30(10): 912–924 ([J26](#)).
- J25. Gazetas G., Garini E., **Anastasopoulos I.**, Gerorgarakos T. (2010), “Effects of Near–Fault Ground Shaking on Sliding Systems”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 135(12): 1906–1921 ([J25](#)).
- J24. **Anastasopoulos I.**, Gazetas G. (2010), “Analysis of cut-and-cover tunnels against large tectonic deformation”, *Bulletin of Earthquake Engineering*, 8(2): 283-307 ([J24](#)).
- J23. Giannakou A., Gerolymos N., Gazetas G., Tazoh T., **Anastasopoulos I.** (2010), “Seismic Behaviour of Batter Piles: Elastic Response”, *Journal of Geotechnical Engineering*, ASCE, 136(9): 1187-1199 ([J23](#)).
- J22. **Anastasopoulos I.**, Alfi S., Gazetas G., Bruni S., and Van Leuven A. (2009), “Numerical and experimental assessment of advanced concepts to reduce noise and vibration on urban railway turnouts”, *Journal of Transportation Engineering*, ASCE, 135(5): 279–287 ([J22](#)).

- J21. Bruni S., **Anastasopoulos I.**, Alfi S., Van Leuven A., Apostolou M., and Gazetas G. (2009), “Train-induced Vibrations on Urban Metro and Tram Turnouts”, *Journal of Transportation Engineering*, ASCE, 135(7): 397–405 ([J21](#)).
- J20. **Anastasopoulos I.** (2009), “Closure to Fault Rupture Propagation through Sand: Finite-Element Analysis and Validation through Centrifuge Experiments”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 135(6): 846–850 ([J20](#)).
- J19. Bruni S., **Anastasopoulos I.**, Alfi S., Van Leuven A., Gazetas G. (2009) “Effects of train impacts on urban turnouts: modelling and validation through measurements”, *Journal of Sound and Vibration*, 324(3–5): 666–689 ([J19](#)).
- J18. **Anastasopoulos I.**, Gazetas G., Bransby M.F., Davies M.C.R., and El Nahas A. (2009), “Normal Fault Rupture Interaction with Strip Foundations”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 135(3): 359-370 ([J18](#)).
- J17. **Anastasopoulos I.**, Gazetas G., Drosos V., Georgarakos T., and Kourkoulis R. (2008), “Design of bridges against large tectonic deformation”, *Earthquake Engineering and Engineering Vibration*, 7(4): 345–368 ([J17](#)).
- J16. Gazetas G., Pecker A., Faccioli E., Paolucci R., and **Anastasopoulos I.** (2008), “Preliminary Design Recommendations for Dip-slip Fault–Foundation Interaction”, *Bulletin of Earthquake Engineering*, 6(4): 677–687 ([J16](#)).
- J15. **Anastasopoulos I.**, Callerio A., Bransby M.F., Davies M.C.R., El. Nahas A., Faccioli E., Gazetas G., Masella A., Paolucci R., Pecker A., Rossignol E. (2008), “Numerical Analyses of Fault–Foundation Interaction”, *Bulletin of Earthquake Engineering*, 6(4): 645–675 ([J15](#)).
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