

**ACHILLEAS G. PAPADIMITRIOU****Assistant Professor, University of Thessaly**Office

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Email: [apapad@civ.uth.gr](mailto:apapad@civ.uth.gr) – Web: <http://apapad.users.uth.gr>**Overview:**

- Born in Athens, Greece, on September 12<sup>th</sup> 1970, and concluded his secondary education in Athens College with honors. Has a PhD in Geotechnical Engineering (1999) and is a registered Civil Engineer (P.E.) in Greece since 1993.
- Has co-authored over 110 publications (19 in refereed journals) on **Computational Geomechanics** (*constitutive modeling of geomaterials, stress integration algorithms*) and **Earthquake Geotechnical Engineering** (*liquefaction, soil and topography effects, seismic microzonation, improvement methods, fault rupture propagation, seismic stability of dams*).
- Has served as Principal Investigator in 2 and as a Main Researcher in over 18 competitive research projects in Greece, EU and the USA.
- Has worked as Main Consultant in over 16 significant technical works in the area of Geotechnical Engineering, with emphasis on the design of embankments, dams and buried pipelines against seismic shaking, liquefaction and fault surface rupture.
- Joined the Department of Civil Engineering of the University of Thessaly (U.Th.) as a (tenure-track) Lecturer in 2007, and serves as an Assistant Professor since December 2011

**Education: National Technical University of Athens, Greece**Doctorate Degree (1995-1999)

Awarded in July 1999. Research focused on the development of an elastoplastic formulation for the simulation of monotonic and cyclic behavior of non cohesive soils.

**Massachusetts Institute of Technology**Master of Science in Civil and Environmental Engineering (1993-1995)

Graduated in September 1995 with a GPA of **5.0** / 5.0

Specialization in Soil Mechanics

**National Technical University of Athens, Greece**Diploma of Civil Engineer (1988-1993)

Graduated in July 1993 with a GPA of **8.6** / 10.00

Specialization in Structural Engineering

**Research Experience**

- 1993 – 1995** M.Sc. Thesis (M.I.T.)  
(*Participation in 1 research project as Main Researcher*)
- 1995 – 1999**
- a) Doctorate Thesis (NTUA)
  - b) Participation in 10 research projects (*2 as Main Researcher*)
- 1999 – 2001**
- a) Military service in Hellenic Air Force
  - b) Participation in 3 research projects (*2 as Main Researcher*)
- 2001 – 2002** Post-Doctoral Researcher, Dept. of Civil & Environmental Engineering (UC Davis)  
(*Participation in 2 research NSF projects as Main Researcher*)
- 2002 – 2007** Post-Doctoral Researcher, Geotechnical Department, NTUA, Greece  
(*Participation in 5 research projects as Main Researcher*)

- 2007 – 2011** Lecturer, Dept. of Civil Engineering, Univ. of Thessaly, Greece
- Principal Investigator in 1 research project,
  - Participation in 6 research projects (*4 as Main Researcher*)
  - Participation in Research Group of GCOLD (since 2010)
  - Acquisition/Installation of hollow cylinder cyclic torsional shear apparatus
- 2011 –** Assistant Professor, Dept. of Civil Engineering, Univ. of Thessaly, Greece
- Principal Investigator in 1 research project,
  - Participation in 2 research projects as Main Researcher

### **Academic Experience**

- 1997 – 1998** Tutor of “*Foundation Engineering and Soil Mechanics*” courses in the Greek Army Corps of Engineers School of Technical Education (Σ.Τ.Ε.Α.ΜΧ.) (*2 semesters*)
- 1996 – 2006**
- a) Tutor of undergraduate Geotechnical courses at NTUA: (*12 semesters*)
  - b) Assistantship in supervision of 12 diploma theses, 5 graduate and 3 PhD theses at NTUA
- 2005** Co-authorship (with Prof. Y. F. Dafalias) of lecture notes for graduate course (University of Bari, Italy) entitled: “*Constitutive modeling in soil plasticity*”
- 2006 –** Faculty Member of Dept. of Civil Engineering, University of Thessaly, Greece:
- a) - 7 undergraduate courses (*24 semesters*): “*Soil Mechanics II*”, “*Special Topics in Geotechnical Engineering*”, “*Soil-Structure-Interaction*”, “*Earthquake Geotechnical Engineering*”, “*Soil Mechanics Lab*”, “*Geotechnical Structures*”, “*Computational Geotechnical Engineering*”
  - 2 graduate courses (*5 semesters*): “*Advanced Geotechnical Earthquake Engineering*” and “*Experimental Methods*”
  - b) Supervision of 15 diploma & 1 graduate theses (in progress: 4 diploma theses)
  - c) Supervision of 1 PhD thesis (in progress)
  - d) Member of Advisory Committee of 3 PhD Theses (in progress)
  - e) External Reader/Reviewer in 4 PhD Theses

### **Professional Experience**

- 1999 – 2001** Member: Subcommittee of the Ministry of Environment, City Planning and Public Works on the “*Causes of Structural Collapses during the 7-9-99 Athens earthquake*”
- 2000 – 2001** Member: Workgroup of the Technical Chamber of Greece on the “*Analytical estimation of accelerations in the disaster areas of the 7-9-99 Athens earthquake*”.
- 2002 – 2007** Department of Design of the Section of Engineering Services of NTUA – Prominent Project: Checker of Structural-Geotechnical Design & Supervisor of Underground Construction Site with tunnel entrance (NATM) (*for 6 months*)
- 1995 –** Freelance Geotechnical Engineer, with significant experience, mostly as a Member of Team of Consultants (*22 projects, total*), addressing:
- i Design of buried pipelines against liquefaction, lateral spreading, seismic motion, fault rupture, slope stability and explosions (*9 projects*)
  - ii Seismic response of earth dams and natural slopes (*3 projects*)
  - iii Design of tall embankments against seismic motion and liquefaction (*2 projects*)
  - iv Foundation design of heavy industrial buildings (*3 projects*)
  - v Geophysical testing and interpretation (*2 projects*)
  - vi Seismic microzonation studies (*2 projects*)
  - vii Seismic design of highway bridge foundation (*1 project*)

### **Computer Skills**

**Engineering Software:** PLAXIS, SIGMA/W, SEEP/W (finite element analysis), FLAC2D, FLAC3D (finite difference analysis), SLOPE/W, XSTABL, UTEXAS3 (slope stability analysis), SHAKE91, QUAD4M (1-D and 2-D seismic response analysis).

**Programming Languages:** BASIC and FORTRAN 95

**Various:** MS Office, Statistica, Grapher, Surfer, Mathematica, Matlab

### **International Acknowledgment & Presence**

- [427 citations](#), excluding self citations of all authors (276 in Scopus, h = 8, checked: 07/03/14)
- Developed codes have been requested by and provided to University research groups worldwide; Itasca Inc provides free download of NTUA-SAND model: <http://www.itasca-udm.com/>
- Co-Reporter in 4 Intern. Confer.: ERTC-12 (2006), 6<sup>th</sup> ICCHGE (2008), 5<sup>th</sup> IC-RAGEESD (2010), ERTC-12 (2011)
- Presentation of 3 General Reports at: 6<sup>th</sup> ICCHGE (2008), 5<sup>th</sup> IC-RAGEESD (2010), ERTC-12 (2011)
- Presentation of 1 Discussion at: 2<sup>nd</sup> PBD on EGE (2012)
- Reviewer in 19 international journals and 7 international conferences
- Reviewer of research proposals for the Austrian Science Fund and the Italian Ministerial Programme “*Research Projects of National Interest 2012*”
- Secretary of European Committee ERTC-12 for Geotechnical Evaluation and Application of EC8
- Member of Technical Committee B (Seismic Aspects of Dam Design) of ICOLD
- Member of TC103 (Numerical Methods in Geomechanics) of ISSMGE
- Member of TC203 (Earthquake Geotechnical Engineering) of ISSMGE
- Member of TC250/SC7, Evolution Group 6: Seismic Design, of ISSMGE
- Speaker in ISSMGE Seminar on Earthquake Geotechnical Engineering (9/04)
- Member of Scientif. Comm. of 3 Intern. Conferences: ERTC-12 (Athens, 9/11), EUCEET Conference (Patra, 11/11), 2<sup>nd</sup> IC on PBD on EGE (Taormina, 5/12)
- Member of Organiz. Comm. of 4<sup>th</sup> JPN-GR Workshop on Seismic Design of Foundations (10/11)
- Session Secretary in 1 international conference: TC-34 of ISSMGE (2003)
- Co-Chairman of Session in 1 international conference: 2<sup>nd</sup> IC on PBD on EGE (Taormina, 5/12)
- 6 Invited Lectures in Intern. Confer. (Lisbon 6/99, Horton Greece 6/02, Vienna 6/05, Reggio-Calabria 06/08, Tokyo 6/09, Rhodes 6/09, note: the invitation was delivered via the first author, who also gave the lecture)
- Lectures: 21 in international conferences & 3 in international seminars
- National Delegate in the 11<sup>th</sup> European Young Geotechnical Engineers’ Conference (9/97)
- Research Assistant at M.I.T. for M.Sc. studies (6/94 - 6/95)

### **National Honors and Awards**

- NANO-LIQ research proposal was awarded 2<sup>nd</sup> place among Engineering Proposals in National Competition (5<sup>th</sup> place among almost 2000 research proposals in any discipline)
- Reviewer in 3 Hellenic conferences (5<sup>th</sup> Geotech.2006; 3<sup>rd</sup> Earthq.Eng.2008, 6<sup>th</sup> Geotech.2010)
- Reviewer for the State Fund Institution (IKY): post-doctoral research proposals (2009), graduate scholarships program (2012)
- Reviewer for General Secretariat of Research and Technology (ΓΓΕΤ): post-doctoral research projects (2012)
- Speaker in Seminars of T.C.G. (TEE) and H.S.C.E. (ΣΠΙΜΕ) for: EC7 (Thessaloniki 2009), EC8 (Rethimno 2009), Ground Improvement (Volos 2010)
- 2 invited lectures (without written contribution) in Hellenic conferences: 3<sup>rd</sup> Earthq. Engineering Conf. (Athens 2008) and 6<sup>th</sup> Geotechnical Conf. (Volos 2010)
- Member of Scientific Comm. Soil Mechanics and Foundations of Tech.Chamber.Greece (2005-)
- Member of Scientific Comm. of 2 Hellenic conferences: 6<sup>th</sup> Geotech.(2010), 2<sup>nd</sup> Conf on Large Dams(2013)
- Member of Organ. Comm. of 6<sup>th</sup> Hellenic Conference on Geotech. Engineering (2010) and two (2) Workshops of T.C.G. on Geotechnical issues (2007)
- Session president at 6<sup>th</sup> Hellenic Geotechnical Conf. (Volos 2010)
- Session secretary of Hellenic conference (1<sup>st</sup> on Large Dams, Larissa 2008) and 2 single-day workshops of T.C.G (TEE) on Geotechnical issues (Athens 2007)
- Academic Advisor for National Academic Recognition Center (DOATAP, 2011)
- Lectures: 15 in Hellenic Conferences, 6 in Seminars (professional, universities)

- Fellowship from the State Fund Institution (I.K.Y.) for Ph.D studies (11/96-2/99)
- Fellowship from the Bodossakis Foundation for international M.Sc. studies (9/93 - 8/95)
- Technical Chamber of Greece (T.C.G.) prize for excellence in undergraduate studies (92-93)
- Praxitelis Argyropoulos prize for excellence in undergraduate courses on hydraulics (1990)
- Fellow of the State Fund Institution for excellence in undergraduate studies (88-91)

**Languages:** English (Proficiency), French (Superieur I), working knowledge of Spanish

**Institutions:** Member of Technical Chamber of Greece T.C.G. (ref. No. 65194, since 1993)  
 Member of Hellenic Society of Civil Engineers (ref. No. 15737, since 1997)  
 Member of Hellenic Society for Soil Mechanics and Geotechnical Engineering  
 (Soil Mechanics and Rock Mechanics Chambers, since 1997)  
 Member of Hellenic Polytechnic Society (since 2006)  
 Member of Greek Committee on Large Dams (since 2009)  
 Full Member of the ASCE (ref. No. 311496, since 1994)

**Research Projects (2, as Principal Investigator)**

1. (2008), “*Optimization of fully coupled non-linear dynamic numerical analysis of geotechnical structures in 2-Dimensions*”, U.Th. prepared for R.C.-U.Th.
2. (in progress), “*Mitigation of Seismic Liquefaction in the Foundation Soil of Existing Structures via Pore Fluid Enrichment with Environmentally Safe Nano-Particles*”, Acronym: NANO-LIQ, U.Th. prepared for General Secretariat of Research and Technology

**Research Projects (18, as Main Researcher)**

1. (1995), “*Seismic Safety of the Tohoku Shinkansen: Assessment and Enhancement*”, Report 8, Cooperative JREast/MIT Research Program on Risk Assessment, MIT, August (*1 citation*).
2. (1996), “*Analytical Method for the Estimation of Displacements of Soils, Foundations & Earth Structures during Earthquakes*”, N.T.U.A. prepared for Earthquake Protection and Planning Organization of Greece (O.A.Σ.Π.), March, (in Greek).
3. (1996), “*Comparative and Analytical Study of the Seismic Parameters of the Ground of the City of Aigion and their effects on the buildings (Design Spectra)*”, focusing on the “*Analysis of the Effect of Local Soil Conditions during the Aigion Earthquake of June 15th 1995*”, University of Athens, University of Athens prepared for Earthquake Protection and Planning Organization of Greece ( O.A.Σ.Π. ), September, (in Greek, *1 citation*)
4. (2000), “*Analysis of Seismic Risk of Soils in Ano Liossia Municipality*”, N.T.U.A. prepared for the Technical Division of Ano Liossia Municipality, July, (in Greek)
5. (2002), “*Numerical modeling of the response of soils and foundations under dynamic loading*”, N.T.U.A. prepared for the NTUA – EPISEY (Archimedes project, in Greek).
6. (2002), “*Constitutive and numerical modeling for the analysis of permanent deformations of soil structures*”, NSF Award CSM 98-00330, UC Davis (USA)
7. (2002), “*Constitutive modeling of inherent sand fabric anisotropy and numerical applications within critical state soil mechanics*”, NSF Award CSM 02-01231, UC Davis (USA)
8. (2002), “*Seismic design of geo-structures under liquefaction regime*”, University of Thessaly prepared for the Earthquake Protection and Planning Organization of Greece (O.A.Σ.Π.), September, (in Greek)
9. (2003), “*Simplified Criteria for the estimation of seismic risk of soils, slopes and faults*”, N.T.U.A. prepared for the Earthquake Protection and Planning Organization of Greece (O.A.Σ.Π.), February, (in Greek).
10. (2005), “*Earthquake Protection – Seismic risk management in urban and semi-urban regions of the Korinthos Prefecture in Greece*”, University of Athens prepared for the Peloponnesus District, (in Greek)

11. (2006), “*Improvement and development of design methods for buried pipelines carrying environmentally hazardous materials (liquid waste, fuel, chemicals) in areas of high seismic risk*”, N.T.U.A. prepared for Ministry of Education – Pythagoras project (in Greek).
12. (2007), “*Foundation of Technical Works on seismically problematic soils (X-SOILS)*”, N.T.U.A. prepared for Ministry of Development – G.S.R.T., October (in Greek).
13. (2008), “*Development of a numerical algorithm for the dynamic elastoplastic analysis of geotechnical structures in 2 and 3 dimensions*”, N.T.U.A. prepared for Program for Development of Basic Research (Lefkippos)
14. (2009), “*Estimation of seismic coefficients for the seismic stability analyses of earthdam slopes: Phase B*”, N.T.U.A. prepared for Public Power Corporation
15. (2010), “*Reconnaissance study for ground settlements in Karla Municipality*”, U.Th. prepared for Karla Municipality
16. (2011), “*Experimental verification of shallow foundation performance under earthquake-induced liquefaction*”, SERIES project partnership with TA Host UCAM.
17. (in progress), “*Innovative design of bridge piers on liquefiable soils with the use of natural seismic isolation*”, Acronym: NAT-SEI-ISO, NTUA for General Secretariat of Research and Technology
18. (in progress), “*Critical State Soil Mechanics Revisited: Fabric Effects*”, Acronym: SOMEF, PI: YF Dafalias, ERC Advanced Grant 2011

Additionally, participation in 11 projects as member of the research group

#### **Technical Reports (16, as Main Consultant)**

1. (1997), “*Crosshole and Downhole Measurements for the New Museum of Acropolis*”, prepared for GEOMECHANICKI S.A., May.
2. (1997), “*Seismic Response Analyses of Breakwater for the New Port of Patras (2<sup>nd</sup> section)*”, prepared for A.D.K. Consultants - TRITON LTD, July, (in Greek).
3. (1998), “*Study of Geologic Changes along the Eratini-Tolofon Coast (2<sup>nd</sup> Part): Geological-Tectonic Analysis, Approximate Seismic Risk Assessment, Approximate Seabed Stability Study*”, prepared for A.D.K. Consultants., April, (in Greek).
4. (2000), “*Crosshole and Downhole Measurements for the Olympic 2004 Village in Acharnes*”, prepared for EDAFOMECHANIKI ltd (in Greek)
5. (2002), “*September 7<sup>th</sup> 1999 Athens Earthquake: Computation estimation of accelerations in the meizo-seismal areas*”, prepared for Technical Chamber of Greece (Decision ΔΕ Γ/18/33/99, in Greek).
6. (2003), “*Oblique runway of Heraclion, Crete, ‘N. Kazantzakis’ Airport: Seismic stability and permanent displacement computations*”, prepared for TRITON LTD, April
7. (2003), “*Kasos breakwater; Liquefaction analysis and slope stability under seismic loading*”, prepared for TRITON LTD, May (in Greek)
8. (2003), “*Seismic Design of M.P. Natural Gas Pipeline at Serres-Drama-Xanthi-Kavala (Kothali) Areas; Seismic verification at problematic areas along the route of the pipeline*”, prepared for ASPROFOS Engineering S.A., June.
9. (2003), “*Seismic motion verification in problematic areas along the H.P. Natural Gas Pipeline Kipi (G.T. Borders)-Alexandroupoli-Komotini; Vol 1/2: pipeline verification against seismic waves and liquefaction*”, prepared for ASPROFOS Engineering S.A., November.
10. (2004), “*Seismic Hazard Study for the M.P. Natural Gas Pipeline fueling the SOVEL industry; B’ Phase: Seismic parameters on ground surface and seismic wave verification*”, prepared for ASPROFOS Engineering S.A., January (in Greek).
11. (2004), “*Seismic Hazard Study for the M.P. Natural Gas Pipeline for Kilkis and Lamia; B’ Phase: Seismic parameters on ground surface and seismic wave verification*”, prepared for ASPROFOS Engineering S.A., March.
12. (2004), “*Seismic Hazard Study and Stress Analysis for the Natural Gas Pipeline (19bar) fueling the Olympic Village*”, prepared for ASPROFOS Engineering S.A., July

13. (2004), “*Review of the Geotechnical, Geophysical and Specialized Seismic – Soil Dynamic Study along the overpass of the Athens – Lamia National Road from K.S. 23+090 to K.S. 24+000*”, prepared for ERGA OSE S.A., December (in Greek)
14. (2005), “*Re-evaluation of seismic verification along the Kipi (G.T. borders) – Alexandroupolis – Komotini High Pressure Natural Gas Pipeline for the segment Kipi Station – G.T. borders: Pipeline verification against seismic waves and liquefaction*”, prepared for ASPROFOS Engineering S.A., January
15. (2006), “*Estimation of seismic coefficients for the seismic stability analyses of earthdam slopes: Phase A*”, prepared for Public Power Corporation, November
16. (2007), “*Seismic pipeline verification at problem areas along the Megara – Corinth and Motor Oil High Pressure Natural Gas Pipeline*”, prepared for Ghizzoni Hellas S.A., March

### **Publications (total of 111)**

#### **THESES (2, not including undergraduate thesis)**

1. **Papadimitriou A. G.**, (1995), “*Optimization of the Seismic Early Warning System for the Tohoku Shinkansen*”, Thesis submitted for the partial fulfillment of the requirements for the degree of Master of Science in Civil and Environmental Engineering, M.I.T., Cambridge MA, USA, September (1 citation)
2. **Papadimitriou A. G.**, (1999), “*Elastoplastic modeling of monotonic and dynamic behavior of soils*”, Doctorate Thesis, Geotechnical Division, N.T.U.A., July (in Greek, 2 citations)

#### **A. INTERNATIONAL JOURNALS (17 papers)**

3. **Papadimitriou A. G.**, Bouckovalas G. D., Dafalias Y. F. (2001), “*Plasticity model for sand under small and large cyclic strains*”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 127(11): 973 – 983, November (43 citations, 25 in Scopus) [DOI](#)
4. **Papadimitriou A. G.**, Bouckovalas G. D. (2002), “*Plasticity model for sand under small and large cyclic strains: a multiaxial formulation*”, *Soil Dynamics and Earthquake Engineering*, 22(3): 191 – 204, April (43 citations, 31 in Scopus) [DOI](#)
5. Bouckovalas G. D., Andrianopoulos K. I., **Papadimitriou A. G.** (2003), “*A Critical State interpretation for the cyclic liquefaction resistance of silty sands*”, *Soil Dynamics and Earthquake Engineering*, 23(2): 115 – 125, February (33 citations, 25 in Scopus) [DOI](#)
6. Bouckovalas G. D., **Papadimitriou A. G.** (2003), “*Multi-variable relations for soil effects on seismic ground motion*”, *Earthquake Engineering and Structural Dynamics*, 32(12): 1867 – 1896, October (2 citations, 1 in Scopus) [DOI](#)
7. Dafalias Y. F., **Papadimitriou A. G.**, Li X. S. (2004), “*Sand plasticity model accounting for inherent fabric anisotropy*”, *Journal of Engineering Mechanics*, ASCE ASCE, 130(11): 1319 – 1333, November (58 citations, 58 in Scopus) [DOI](#)
8. **Papadimitriou A. G.**, Dafalias Y. F., Yoshimine M. (2005), “*Plasticity modeling of the effect of sample preparation method on sand response*”, *Soils and Foundations*, 40(2): 109 – 124, April (18 citations, 11 in Scopus) [DOI](#)
9. Bouckovalas G. D., **Papadimitriou A. G.** (2005), “*Numerical Evaluation of Slope Topography Effects on Seismic Ground Motion*”, *Soil Dynamics and Earthquake Engineering*, 25(7-10): 547 – 555 (65 citations, 42 in Scopus) [DOI](#)
10. Dafalias Y. F., Manzari M. T., **Papadimitriou A. G.** (2006), “*SANICLAY: Simple Anisotropic Clay plasticity model*”, *International Journal of Numerical and Analytical Methods in Geomechanics*, 30, 1231 – 1257 (38 citations, 38 in Scopus) [DOI](#)
11. **Papadimitriou A. G.**, Antoniou A. A., Bouckovalas G. D., Marinos P. G. (2008), “*Methodology for automated GIS-aided seismic microzonation studies*”, *Computers and Geotechnics*, 35(4): 505-523 (6 citations, 6 in Scopus) [DOI](#)
12. Antoniou A. A., **Papadimitriou A. G.**, Tsiambaos G. K. (2008), “*A Geographical Information System for managing geotechnical data for Athens (Greece) and its use for automated seismic microzonation*”, *Natural Hazards*, 47(3): 369-395 (2 citations, 2 in Scopus) [DOI](#)



13. Loukidis D., Bouckovalas G. D., **Papadimitriou A. G.** (2009), “*Analysis of fault rupture propagation through uniform soil cover*”, Soil Dynamics and Earthquake Engineering, 29(11-12): 1389-1404 (*14 citations, 14 in Scopus*) [DOI](#)
14. Andrianopoulos K. I., **Papadimitriou A. G.**, Bouckovalas G. D. (2010), “*Explicit integration of bounding surface model for the analysis of earthquake soil liquefaction*”, International Journal for Numerical and Analytical Methods in Geomechanics, 34(15): 1586-1614 (*4 citations, 4 in Scopus*) [DOI](#)
15. Andrianopoulos K. I., **Papadimitriou A. G.**, Bouckovalas G. D. (2010), “*Bounding surface plasticity model for the seismic liquefaction analysis of geotechnical structures*”, Soil Dynamics and Earthquake Engineering, 30(10): 895-911, October (*6 citations, 6 in Scopus*) [DOI](#)
16. Valsamis A., Bouckovalas G. D., **Papadimitriou A. G.** (2010), “*Parametric investigation of lateral spreading of gently sloping ground*”, Soil Dynamics and Earthquake Engineering, 30(6): 490-508, June (*8 citations, 8 in Scopus*) [DOI](#)
17. Bouckovalas G. D., **Papadimitriou A. G.**, Niarchos D. N., Tsiapas Y. Z. (2011), “*Sand fabric evolution effects on drain design for liquefaction mitigation*”, Soil Dynamics and Earthquake Engineering, 31(10): 1426-1439 [DOI](#)
18. **Papadimitriou A. G.**, Bouckovalas G. D., Andrianopoulos K. I. (2014), “*Methodology for estimating seismic coefficients for performance-based design of earthdams and tall embankments*”, Soil Dynamics and Earthquake Engineering 56, 57-73 [DOI](#)
19. Andrianopoulos K. I., **Papadimitriou A. G.**, Bouckovalas G. D., Karamitros D. K. (2014), “*Insight into the seismic response of earthdams with an emphasis on seismic coefficient estimation*”, Computers and Geotechnics 55, 195-210 [DOI](#)

#### **B. HELLENIC JOURNALS (2 papers)**

20. Bouckovalas G. D., **Papadimitriou** (2005), “*Multi-variable relations for soil effects on peak seismic motion parameters*”, Technika Chronika, eds. Technical Chamber Greece, 25(1): 9–22
21. Bouckovalas G. D., **Papadimitriou** (2005), “*Multi-variable relations for soil effects on elastic response spectra*”, Technika Chronika, eds. Technical Chamber Greece, 25(1): 23 – 36

#### **C. INVITED CONFERENCE PROCEEDINGS – BOOK CHAPTERS (7 papers)**

22. Bouckovalas G. D., Gazetas G., **Papadimitriou A. G.** (1999), “*Geotechnical aspects of the 1995 Aegion, Greece earthquake*”, Proceedings, 2<sup>nd</sup> International Conference on Earthquake Geotechnical Engineering, Lisbon, Portugal, Vol. 2: 739-748 (*27 citations*)
23. Dafalias Y. F., **Papadimitriou A. G.**, Li X. S., Manzari M. T. (2006), “*Generic constitutive ingredients in CSSM models for sands*”, Modern Trends in Geomechanics (Eds W. Wu, H.-S. Yu), Springer (Condensed outcome of homonymous International Workshop held in Vienna, Austria, June 27 - 29, 2005).
24. Bouckovalas G. D., **Papadimitriou A. G.** (2007), “*Earthquake-induced liquefaction: New evidence and prospects*”, Proceedings, 5<sup>th</sup> Hellenic Conference of Geotechnical and Geoenvironmental Engineering, May 2006, Xanthi (4<sup>th</sup> Volume publ. in 2007, in Greek).
25. Bouckovalas G. D., **Papadimitriou A. G.**, Niarchos D. (2009), “*Gravel drains for the remediation of liquefiable sites: the Seed & Booker (1977) approach revisited*”, Keynote Lecture, IS-Tokyo 2009
26. Bouckovalas G. D., Andrianopoulos K. I., **Papadimitriou A. G.** (2009), “*On the numerical modeling of ground and foundation performance under severe seismic shaking and liquefaction*”, Keynote Lecture, COMPDYN 2009, Rodos, Greece (CD-535).
27. Bouckovalas G. D., **Papadimitriou A. G.**, Andrianopoulos K. I., Valsamis A., Karamitros (2011), “*Numerical modeling of liquefaction and related ground and foundation performance*”, Keynote Lecture, MERCEA '08, May 2008, Reggio-Calabria, Italy (3<sup>rd</sup> Volume publ. in 2011)
28. Bouckovalas G. D., **Papadimitriou A. G.**, Andrianopoulos K. I., Anastasopoulos K. (2013), “*Performance-based seismic design of tall earth dams*”, Special Lecture, 2<sup>nd</sup> National Conference on Dams and Reservoirs, November 7-8, Athens

**D. INTERNATIONAL CONFERENCE PROCEEDINGS (49 papers, peer reviewed)**

29. Bouckovalas G. D., **Papadimitriou A. G.** (1994), “*Storm-Induced Cyclic Loading of Anchor Piles in Clay*”, Proceedings, Behavior of Off Shore Structures Conference BOSS ‘94, M.I.T., Cambridge MA, USA, July, pp. 37-48.
30. **Papadimitriou A. G.**, Bouckovalas G. D. (1997), “*Numerical Simulation of Seismic Ground Response in the Case of the Aigion (Greece) Earthquake of June 15<sup>th</sup> 1995*”, Proceedings, 11<sup>th</sup> European Young Geotechnical Engineers’ Conference, Madrid, Spain, September, pp. 122-144 (1 citation).
31. Veneziano D., **Papadimitriou A. G.** (1998), “*Optimizing the Seismic Early Warning System for the Tohoku Shinkansen*”, Proceedings, International IDNDR-Conference on Early Warning Systems for the Reduction of Natural Disasters, Potsdam, Germany, September, pp. 727-734
32. Veneziano D., **Papadimitriou A. G.** (1998), “*Optimization of the Seismic Early Warning System for the Tohoku Shinkansen*”, Proceedings, 11<sup>th</sup> European Conference on Earthquake Engineering, Paris, France, September, (in CD-ROM, 7 citations).
33. **Papadimitriou A. G.**, Bouckovalas G. D., Dafalias Y. F. (1999), “*Use of elastoplasticity to simulate cyclic sand behavior*”, Proceedings, 2<sup>nd</sup> International Conference on Earthquake Geotechnical Engineering, Lisbon, Portugal, June, Vol. 1: 125-130 (3 citations, 1 in Scopus)
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79. **Papadimitriou A. G.**, Bouckovalas G. D., Dafalias Y. F. (2001), “*An elastoplastic formulation for non cohesive soil behavior under cyclic shearing*”, Proceedings, 4<sup>th</sup> Hellenic Conference on Geotechnical Engineering, Athens, I: 139 – 146, (in Greek).
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81. Andrianopoulos K. I., Bouckovalas G. D., **Papadimitriou A. G.** (2001), “*Effect of silt content on earthquake-induced liquefaction: a new approach*”, Proceedings, 4<sup>th</sup> Hellenic Conference on Geotechnical Engineering, Athens, 2: 91 – 98, (in Greek).
82. **Papadimitriou A. G.**, Antoniou A. A., Bouckovalas G. D., Marinou P. G. (2006), “*Automated execution of seismic microzonation studies using G.I.S.*”, Proceedings, 5<sup>th</sup> Hellenic Conference on Geotechnical Engineering, Xanthi, May, Vol 2, pp. 393-400 (in Greek).
83. Bouckovalas G. D., **Papadimitriou A. G.**, Vasdekis S., Vourvahakis T., Drandakis E., Sofianou I. (2006), “*Approximate relations for topography effects on seismic motion*”, Proceedings, 5<sup>th</sup> Hellenic Conference on Geotechnical Engineering, Xanthi, May, Vol 2, pp. 343-350 (in Greek).
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86. Andrianopoulos K. I., Bouckovalas G. D., **Papadimitriou A. G.** (2006), “*Numerical analysis of geo-structures in a liquefaction regime*”, Proceedings, 5<sup>th</sup> Hellenic Conference on Geotechnical Engineering, Xanthi, May, Vol 2, pp. 73-80 (in Greek).
87. **Papadimitriou A. G.**, Loukidis D., Bouckovalas G. D., Karamitros D. (2006), “*Numerical evaluation of active fault rupture propagation through soil layer*”, Proceedings, 5<sup>th</sup> Hellenic Conference on Geotechnical Engineering, Xanthi, May, Vol 2, pp. 385-392 (in Greek).

88. **Papadimitriou A. G.**, Bouckovalas G. D., Anastasopoulos K. (2008), “*Improved methodology for estimating the seismic coefficients for pseudo-static slope stability analysis of earth dams*”, 3<sup>rd</sup> Hellenic Conference of Earthquake Engineering and Engineering Seismology, Athens, November 5-7, paper 2060 (in Greek).
89. **Papadimitriou A. G.**, Bouckovalas G. D., Anastasopoulos K. (2008), “*New methodology for estimating the seismic coefficients for pseudo-static slope stability analysis of earth dams*”, 1<sup>st</sup> Hellenic Conference on Large Dams, Larissa, November 13-15 (in Greek)
90. **Papadimitriou A. G.**, Vranna A., Y. F. Dafalias, Manzari M. T. (2010), “*Effect of yield surface shape on the elasto-plastic simulation of cohesive soil response*”, Proceedings, 6<sup>th</sup> Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Sept. 29 – Oct. 1, Volos (in Greek)
91. Bouckovalas G. D., **Papadimitriou A. G.**, Karamitros D. (2010), “*Compatibility of EC-8 design seismic actions with wave propagation theory*”, Proceedings, 6<sup>th</sup> Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Sept. 29 – Oct. 1, Volos (in Greek)
92. **Papadimitriou A. G.** (2010), “*Aggravation of peak seismic acceleration in the vicinity of various topographic shapes*”, Proceedings, 6<sup>th</sup> Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Sept. 29 – Oct. 1, Volos (in Greek)
93. Andrianopoulos K. I., **Papadimitriou A. G.**, Bouckovalas G. D., Anastasopoulos K. (2010), “*Parametric numerical investigation of the seismic response of earthdams and tall embankments*”, Proceedings, 6<sup>th</sup> Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Sept. 29 – Oct. 1, Volos (in Greek)
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96. Veneziano D., **Papadimitriou A. G.** (1997), “*Optimization of the Seismic Early Warning System for the Tohoku Shinkansen*”, Proceedings, 29<sup>th</sup> General Assembly of the International Association of Seismology and Physics of the Earth’s Interior, Thessaloniki, pp. 268 (*abstract*).
97. Bouckovalas G. D., **Papadimitriou A. G.** (1997), “*Effects of Soil and Topography in the Aigion, Greece Earthquake of June 15<sup>th</sup> 1995*”, Post Symposium Tour 1 Proceedings, International Symposium on Engineering Geology and the Environment, IAEG, Athens, Greece, June, pp. 8-29.
98. Bouckovalas G. D., **Papadimitriou A. G.** (2003), “*Lefkada M=6.4, 14/8/03 Earthquake: Analysis of Soil Effects and Liquefaction on Strong Seismic Motion Recordings*”, Proceedings, 1<sup>st</sup> Intern. Workshop on Earthquake Prediction Research, November, Athens (*abstract*).
99. **Papadimitriou A. G.**, Dafalias Y. F., Li X. S. (2005), “*The dependence of sand response on inherent fabric anisotropy*”, Symposium on Constitutive Modeling of Geomaterials, Mechanics of Materials 2005, Joint ASCE/ASME/SES Conference (*abstract*).
100. Pitilakis, K., **Papadimitriou, A. G.** (2006), “*Topography Effects*”, General Report. Proceedings, ERTC-12 Workshop, N.T.U.A., Athens, January (*2 citations*)
101. Bouckovalas G. D, **Papadimitriou A. G.**, Karamitros D. K. (2006), “*Compatibility of EC-8 ground types and site effects with 1D seismic wave propagation theory*”, Proceedings, ERTC-12 International Workshop, N.T.U.A., Athens, 20-21 January (*7 citations*)
102. **Papadimitriou A. G.**, Bouckovalas G. D. (2006), “*Aggravation of seismic ground motion due to slope topography*”, Proceedings, ETC-12 International Workshop, N.T.U.A., Athens, 20-21 January

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104. Mylonakis G., **Papadimitriou A. G.**, Kazmi Q., Newhouse S. G. (2008), “*Dams, Embankments and Slopes*”, General Report for Session 2, Proceedings, 6<sup>th</sup> International Conference on Case Histories in Geotechnical Engineering, Arlington VA, August 11-16.
105. Mylonakis G., **Papadimitriou A. G.**, Gerolymos N., Chatterjee P. (2010), “*A: Soil-structure interaction under dynamic loading for both shallow and deep foundations – B: Soil-foundation interaction triggered by seismic faulting*”, General Report for Session 5, Proceedings, 5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics & Symposium in honor of Prof. I. M. Idriss, San Diego, CA – May 24-29
106. Pantazidou M, **Papadimitriou A. G.** (2010), “*Teaching Geotechnical Engineering: new blood, new trends*”, Proceedings, 6<sup>th</sup> Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Sept. 29 – Oct. 1, Volos (in Greek, Volume 4).
107. **Papadimitriou A. G.** (2011), “*Case histories as an inductive teaching and learning tool in geotechnical engineering instruction*”, Proceedings, ETC-16 Workshop on Education & Training, Athens, September 14
108. Maugeri M., **Papadimitriou A. G.** (2011), “*Evaluation of geotechnical aspects of EC8*”, General Report, Proceedings, ERTC-12 Workshop on Geotechnical Aspects of EC8, Athens, September 11
109. Maugeri M., **Papadimitriou A. G.** (2011), “*Contribution of ERTC-12 Workshop on the evaluation of geotechnical aspects of EC8*”, Proceedings, XV<sup>th</sup> European Conference on Soil Mechanics and Geotechnical Engineering, Athens, September 2011, Vol. 4 (publ. in 2012)
110. Karamitros D.K., Cilingir U., Bouckovalas G.D., Madabhushi S.P.G., **Papadimitriou A.G.**, Haigh S.K. (2013): “*Experimental Verification of Shallow Foundation Performance under Earthquake-Induced Liquefaction*”, Proceedings of the International Conference on Earthquake Geotechnical Engineering, from Case History to Practice, in Honor of Professor Kenji Ishihara (ICEGE2013), Istanbul, Turkey, June 17-19 (*abstract*)
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