



Prodromos PSARROPOULOS
Structural & Geotechnical Engineer, BEng, MEng, MSc, PhD

Address: 43 Themistocleous st., GR-16674, Glifada, Athens, Greece
Telephones: +30-2107722623, +30-6937415395
E-mail: prod@central.ntua.gr

1. EDUCATION (at National Technical University of Athens, Greece)

- 2001 PhD in Geotechnical Engineering
Dissertation: Numerical soil-dynamics analysis in the seismic design of bridge piers and abutments
- 1999 MSc in Structural Engineering (in cooperation with Imperial College, London, UK)
Dissertation: Seismic response analysis with the spectral-element method: Application to dams and tunnels
- 1994 Diploma (BEng & MEng) in Civil Engineering
Dissertation: Automated methods for generating and readjustment of finite-element meshes (in cooperation with the Department of Civil and Offshore Engineering, Heriot-Watt University, UK)

2. LANGUAGES

- Greek (mother tongue)
- English (fluently - Certificate of Proficiency in English, University of Cambridge, 1991)
- Italian (fluently - Certificato di Conoscenza della Lingua Italiana, PALSO, 1995)
- German (basic - level Grundstufe)

3. FELLOWSHIPS & AWARDS

- 2007 Postdoctoral Fellow at EUCENTRE Foundation, Pavia, Italy [1/2007 - 8/2007]
- 2006 Postdoctoral Fellow at Politecnico di Milano, Italy [4/2006 - 12/2006]
- 1999 Graduate scholarship from the School of Civil Engineering, NTUA [7/1999 - 1/2001]
- 1999 National representative at the 13th Young Geotechnical Engineers Conference - Field and Laboratory Measurements in Geotechnical Engineering
- 1998 First at the selection, then a scholar at the M.Sc. Program of NTUA "Structural Design and Analysis of Structures" [1998-99]
- 1997 Fellow (after competition) of the State Scholarships Foundation for Ph.D. [10/1997 - 3/2001]
- 1994 Award of Kontodimou Prize from Technical Chamber of Greece for "best performance (8.9/10)" in academic year 1993-94
- 1994 Award from Seamen's House for "outstanding performance at NTUA"
- 1993 Award from State Scholarships Foundation during the academic year 1992-93
- 1992 Award from State Scholarships Foundation during the academic year 1991-92
- 1990 Award from State Scholarships Foundation during the academic year 1989-90

4. RESEARCH INTERESTS AND AREAS OF PROFESSIONAL ACTIVITY

- Static and Dynamic Soil – Structure Interaction
- Soil Mechanics, Geotechnical Engineering, Foundation Design, Underground Structures
- Soil Dynamics, Geophysics, Geotechnical Earthquake Engineering
- Structural Engineering, Dynamics of Structures, Earthquake Engineering,
- Computational Mechanics and Dynamics, Numerical Methods, Finite Element Method
- Field Monitoring, Remote Sensing

5. PROFESSIONAL REGISTRATIONS, COMMITTEES & MEMBERSHIPS

- Registered Professional Engineer, Technical Chamber of Greece (TEE), Reg. No. 24193 (since 1995)
- Secretary of the Technical Committee 341 (Geotechnical Investigation & Testing) of the European Committee for Standardization (CEN)
- Secretary of the Technical Committee 19 (Preservation of Historic Sites) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)
- Technical Manager of the Technical Committee 78 (Geotechnical Special Projects) of the Hellenic Organization for Standardization (ELOT)
- Member of the Advisory Committee of the Pipeline Technology Conference (PTC)
- Member of the working group "Earthworks & Crossings" of the International Pipeline & Offshore Contractors Association (IPLOCA)
- Member of the Scientific Committee on Soil Mechanics and Foundation of TEE
- Member of the Scientific Committee of ELOT for the translation of EC1, EC7 & EC8 in Greek
- Member of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)
- Member of the International Society of Rock Mechanics (ISRM)
- Member of the Association of Civil Engineers of Greece (ΣΠΜΕ)
- Member of the Hellenic Society of Earthquake Engineering (ETAM)
- Member of the Hellenic Society of Soil Mechanics & Foundation Engineering (EEEEΓΜ)

6. EMPLOYMENT RECORD *(please see Sections 7 and 8 for more details)*

2004 – to date Various academic positions

1995 – to date Freelancer structural and geotechnical consultant

2003 – 2014 Senior technical manager at the General Technical Administration of NTUA
Position held and description of duties: Checker of structural and geotechnical design and supervisor of construction works

1998 – 2003 Associate engineer at the Design Office "Gazetas & Associates"
Position held and description of duties: Senior geotechnical engineer and numerical analyst

1996 – 1997 Employee at the Design Company "ACES"
Position held and description of duties: Structural and geotechnical engineer

7. RELATED PROFESSIONAL EXPERIENCE (MAIN INFRASTRUCTURE PROJECTS)

2017

Project name: Assessment of the structural response of the masonry lighthouse of Rethimno, Crete
Client: National Observatory of Athens
Position: Structural and Geotechnical Engineer
Project type: Geotechnical, Structural and Seismic
Tasks: Evaluation of geotechnical and seismological data, evaluation of the available recordings of noise and earthquakes, numerical modeling, dynamic analyses

2016

Project name: Structural and geotechnical design of Papadiana Dam, Crete
Client: Prefecture of Crete (in cooperation with NTUA)
Position: Structural and Geotechnical Engineer
Project type: Geotechnical, Structural, and Seismic
Tasks: Evaluation of geotechnical and seismological data, static and dynamic analyses.

2014 - 2015

Project name: Trans Adriatic Pipeline (TAP)
Client: EON Technologies GmbH (Germany)
Position: Lead Geotechnical Engineer & Deputy Project Manager
(under the coordination of Aristotle University of Thessaloniki)
Project type: Geohazard Assessment & Pipeline Seismic Design (FEED Phase)
Tasks: Assessment of slope instabilities and earthquake loading (i.e. seismic wave loading and permanent ground deformations due to active fault ruptures, liquefaction phenomena and slope instabilities) & pipeline seismic response

2014

Project name: Retaining walls at the North Crete Motorway
Client: PANGAIA
Position: Consultant Engineer
Project type: Structural
Tasks: Structural design of the retaining system (reinforced concrete sheet-pile walls)

2013

Project name: Trans Adriatic Pipeline (TAP)
Client: National Institute of Oceanography and Experimental Geophysics OGS (Italy)
Position: Consultant Engineer / Specialist
Project type: Geohazard Assessment & Seismic Design
Tasks: Potential mitigation measures against geohazards (contribution to ESIA)

2012

Project name: Retrofitting of the old masonry building "Konofagos", at the Technological & Cultural Park in Lavrion, Greece
Client: National Technical University of Athens
Position: Senior Civil Engineer at the General Technical Administration of NTUA
Project type: Structural, Geotechnical, Environmental
Tasks: Preliminary study for the structural retrofitting

2011 – 2012

Project name: IGI – Poseidon pipeline
Client: Intecsea – WorleyParsons (The Netherlands)
Position: Consultant Engineer / Specialist
Project type: Geohazard Assessment & Seismic Design
Tasks: Geotechnical earthquake engineering study and seismic design of the Greek onshore part and the landfall against slope instabilities and fault ruptures

2011

Project name: IGI – Poseidon project
Client: Intecsea – WorleyParsons (The Netherlands)
Position: Consultant Engineer / Specialist
Project type: Geological / Geological / Geohazards
Tasks: Feasibility report for the relocation of the compressor station and the consequent rerouting

2009

Project name: Four bridges on the Katra-Quazigund Rail Link India
Client: Rambøll & Vario Dynamics (Denmark)
Position: Consultant Engineer
Project type: Seismic Design & Soil – Structure Interaction Issues
Tasks: Seismic Design Review

2008

Project name: Slope stability measures at Filipei area – Grevena Prefecture, Greece
Client: Ch. Tsatsanifos (PANGAIA design office)
Position: Consultant Engineer
Project type: Geotechnical
Tasks: Evaluation of geotechnical investigation, analysis and design of retaining system (anchored sheet-pile walls)

2008

Project name: Soil – structure interaction of strip footing systems using EPS as fill material
Client: Greek Association of Expanded Polystyrene (EPS) Manufacturers
Position: Consultant Engineer
Project type: SSI & Seismic
Tasks: Coordination of the project, 3-D numerical modelling

2007 – 2008

Project name: Underground space (area of 2000 m²) for the deposit of contaminated minerals at the Technological & Cultural Park in Lavrion, Greece
Client: National Technical University of Athens
Position: Senior Civil Engineer at the General Technical Administration of NTUA
Project type: Geotechnical, Environmental
Tasks: Evaluation of geotechnical and geophysical investigations, check of the design and supervision of the construction works (underground space, access tunnel, and access shaft)

2007

Project name: Seismic Hazard Analysis for the New Refinery of the Hellenic Petroleum S.A. in Elefsina, Greece
Client: Hellenic Petroleum S.A.
Position: Consultant Engineer
Project type: Geotechnical, Seismic, Soil Dynamics
Tasks: Evaluation of geotechnical investigation, ground response analyses, determination of seismic design parameters, assessment of site effects

2004

Project name: Hydraulic dam at Kefalovriso Lakes at Trikala Prefecture", Greece
Client: Municipality of Faloreia, Trikala Prefecture
Position: Consultant Engineer
Project type: Geotechnical
Tasks: Coordination of geotechnical investigation and design of the dam

2004

Project name: Road Connection between the Districts of the Koziakas Municipality, Greece
Client: Municipality of Koziakas, Trikala Prefecture
Position: Consultant Engineer
Project type: Geotechnical
Tasks: Coordination of geotechnical investigation, slope instability assessment, and design of retaining structures

2004

Project name: Municipal waste landfills for three towns of central Greece (Amfissa, Trikala, and Volos)
Client: EPTA (environmental design office)
Position: Consultant Engineer
Project type: Geotechnical
Tasks: Geotechnical design of the landfills

2004

Project name: Analysis & Design of a typical reinforced-concrete building with seismic isolation
Client: E. Tochtamis (private construction company)
Position: Consultant Engineer & Designer
Project type: Seismic, Civil
Tasks: Dynamic 3D analysis of the building, seismic design, cost analysis

2003

Project name: Piled foundation of the two 300 m – in span arches constructed for the renovation of the Olympic Stadium for the Olympic Games of 2004 in Athens
Client: Ministry of Public Works
Position: Consultant Engineer & Designer at Gazetas & Associates design office
Project type: Geotechnical
Tasks: Evaluation of geotechnical investigation, and contribution to the design of the piled foundation

2003

Project name: Egnatia Motorway, Greece (Asprovalta area – part 11.1)
Client: EGNATIA S.A.
Position: Consultant Engineer & Designer at Odotechniki design office
Project type: Geotechnical
Tasks: Contribution to the geotechnical design
(slope instability assessment & design of retaining measures)

2003

Project name: Feasibility analysis of the Rion – Antirion offshore submerged railway tunnel
Client: Hellenic Railway Organizations (OSE)
Position: Consultant Engineer & Designer at Gazetas & Associates design office
Project type: Geotechnical, Seismic, Soil Dynamics
Tasks: Evaluation of geotechnical investigation, contribution to the seismic design, and 2D ground response analyses

2002

Project name: Support and restoration of an old masonry church
Client: Municipality of Marathokampos, Samos
Position: Consultant Engineer & Supervisor
Project type: Structural, Geotechnical
Tasks: Structural analysis and design, supervision of the works

1999

Project name: Underground Bunker CARS, central Greece
Client: Elliniki Technodomiki S.A.
Position: Consultant Engineer & Designer at Gazetas & Associates design office
Project type: Geotechnical, Seismic, Dynamic
Tasks: Contribution to the design against earthquake and weapon explosion

1998

Project name: Seismic design of Sykia dam (160 m dam to be constructed in west Greece)
Client: Ministry of Public Works
Position: Consultant Engineer & Designer at Gazetas & Associates design office
Project type: Seismic, Soil Dynamics
Tasks: Contribution to the seismic design, 2D ground response analyses

1995 – 1996

Project name: Detailed Final Design Coordination Office of the Athens Metro (1st phase)
Client: Athens Metro
Position: Senior Engineer at ACES design office
Project type: Structural, Mechanical
Tasks: Coordination for the finalization of the structural and mechanical design

1995

Project name: Structural design of three stations of Athens Metro (1st phase)
Client: Athens Metro
Position: Civil Engineer at ACES design office
Project type: Structural
Tasks: Contribution to the structural analysis and design

8. RELATED SCIENTIFIC EXPERIENCE

Academic positions

- 2014 - to date Senior Research and Teaching Associate
Department of Infrastructure and Rural Development,
School of Rural and Surveying Engineering, National Technical University of Athens
Courses: "Geotechnical Engineering", "Soil Mechanics & Foundations", "Engineering Materials", "Offshore Structures"
- 2006 - to date Instructor
Hellenic Army Corps of Engineers
Courses: "Soil Mechanics & Foundations"
- 2010 - 2012 Adjunct Associate Professor
Department of Infrastructure Engineering, Hellenic Air-Force Academy (HAFA)
Courses: "Earthquake Resistant Structures", "Geophysics"
- 2004 - 2009 Adjunct Lecturer
Department of Infrastructure Engineering at the Hellenic Air-Force Academy (HAFA)
Courses: "Earthquake Resistant Structures", "Geophysics"

Main research activity

Scientific responsible and coordinator of a Research Project funded by the Greek Organization of Earthquake Planning and Protection (ΟΑΣΠ) entitled "Supporting experimental and theoretical microzonation methods".

Project objectives:

- (a) the reopening and upgrading of the seismic array of Cefalonia island, and
- (b) the numerical simulation of the seismic behavior of valleys.

[11/2000 - 7/2003]

Researcher in the Research Project entitled "Development of algorithms for solving large scale engineering problems"

Funding : General Secretariat of Research and Technology

Responsible : M. Papadrakakis (NTUA)

[9/1995 – 11/1995]

Principal investigator in the Research Project entitled "Three-Dimensional site effects and soil-foundation interaction in earthquake and vibration risk evaluation (TRISEE - ENV4-CT96-0254)"

Funding : E.U.

Responsible : G. Gazetas (NTUA)

[11/1996 – 9/1998]

Principal investigator in the Research Project entitled "Computational and experimental evaluation of seismic accelerations at the epicentral zone during the Athens earthquake on 07/09/1999"

Funding : Greek Organization of Earthquake Planning and Protection

Responsible : G. Gazetas (NTUA)

[2/2000 – 12/2000]

Main researcher in the Research Project entitled "Two-dimensional simulation of the inelastic wave propagation in heterogeneous soils and correlation with the selective concentration of damage in the Athens earthquake 07/09/1999"

Funding : NTUA

Responsible : G. Gazetas (NTUA)

[5/2000 – 9/2000]

Main researcher in the Research Project entitled "Mathematical and experimental modeling of the mechanisms of genesis, evolution and outcome of violent landslides (PYTHAGORAS)"

Funding : Ministry of Education

Responsible : J. Vardoulakis (NTUA)

[7/2004 – 8/2006]

Principal investigator in the Research Project entitled "Seismic vulnerability of waste landfills and optimal seismic design for reduction of environmental risk"

Funding : General Secretariat of Research and Technology (PENED 2003)

Responsible : I. Tsompanakis (Technical University of Crete)

[10/2005 – 2009]

Principal investigator in the Research Project entitled "Limiti di applicabilita dei metodi pseudo-statici nelle analisi di stabilita dei pendii e delle opere di sostegno dei terreni in zona sismica" PRIN – Programmi di ricerca scientifica (*Major research program nationwide in Italy, which included numerical simulations and experiments to optimize the seismic design of retaining structures*)

Funding: Ministero dell'Istruzione, dell'Università e della Ricerca

[4/2006 – 8/2007]

Principal investigator in the Research Project entitled "Investigation of seismic efficiency of modern techniques for the stabilization of natural soil slopes and artificial embankments"

Funding : Technical University of Crete

Responsible: I. Tsompanakis (Technical University of Crete)

[2008 – 2010]

Principal investigator in the Research Project entitled "Structural health monitoring of the behavior of the Acropolis Walls under seismic loading, via combined instrumentation with optical fiber sensors and accelerometers".

Funding: John Latsis Public Benefit Foundation

Responsible: M. Sakellariou (NTUA)

[2015]

Principal investigator and deputy coordinator in the Research Project entitled "Assessment of Earthquake Loading and Seismic Response of TAP pipeline"

Funding: EON

Responsible: C. Papazachos (AUTH)

[2014 - 2015]

Member of the Editorial Board of international scientific journals

- Advances in Civil Engineering

Reviewer for international scientific journals

- Journal of Geotechnical and Geoenvironmental Engineering, ASCE
- Soil Dynamics & Earthquake Engineering Journal, Elsevier
- Soils & Foundations, Elsevier
- Bulletin of Earthquake Engineering, Springer
- Journal of Structure and Infrastructure Engineering, Taylor & Francis
- Geotextiles & Geomembranes, Elsevier
- Acta Geotechnica, Springer
- Environmental Processes, Springer
- Ocean Engineering, Elsevier

Main invited lectures

- 2006 Retaining structures under seismic excitation, EUCENTRE & ROSE School, Italy
- 2007 Seismic design of retaining structures, Department of Civil Engineering, University of Thessaly
- 2008 Static and seismic response of a strip footing system using EPS as fill material, European Manufacturers of Expanded Polystyrene, Spain
- 2008 Local site effects and seismic response of bridges, NATO Advanced Research Workshop on “Coupled site and soil-structure interaction effects with application to seismic risk mitigation”, Bulgaria
- 2009 Dynamic soil – structure interaction : Case studies, DTU, Denmark.
- 2010 The shear strength of soil, University of Luxembourg.
- 2011 Static and dynamic soil – structure interaction (SSI): the challenge to combine geotechnical and structural engineering, Nigde University, Faculty of Engineering, Turkey
- 2013 Risks and potential catastrophes from oil & gas infrastructures due to seismic and geotechnical hazards, Second Cyprus Safety Platform Symposium in Man – Made Catastrophes, Cyprus
- 2013 Active Faults, Earthquake Risk, and Seismic Design of Structures and Infrastructures in North Africa, Plenary Session during the Infrastructure North Africa Conference, Tunis
- 2014 Geohazards and geotechnics in pipeline engineering, Post-conference Seminar during the 9th Pipeline Technology Conference, Berlin, Germany
- 2015 Seminar on Eurocode 8 - Part5 (Foundations, retaining structures and geotechnical aspects) FUNDEC, University of Lisbon, Portugal
- 2015 Earthquake-related geohazards and seismic design of pipelines, 8th Annual Pipeline Integrity Management Forum, London, UK
- 2016 Assessment of earthquake-related geohazards and seismic design of onshore and offshore pipelines, Novel Construction Spring Plenary Session, International Pipeline & Offshore Contractors Association (IPLOCA), Geneva, Switzerland
- 2017 Geohazard assessment and seismic design of onshore and offshore pipelines, Strathclyde University, Glasgow, UK
- 2017 Geohazards & geotechnics in pipeline engineering, University of Edinburgh, Edinburgh, Scotland, UK
- 2017 Quantitative Geohazard Assessment and Seismic Design of Onshore and Offshore High-Pressure Gas Pipelines, Conference on Risk Assessment & Management in Critical Infrastructures, Cyprus

List of Supervised & Co-supervised Theses

A) Supervision of theses (Department of Infrastructure Engineering, Hellenic Air-Force Academy)

- Seismic design of retaining systems
(G. Papazafeiropoulos)
- Analysis of structures subjected to differential dynamic loading
(Th. Vergos & K. Katsantonis)
- Seismic risk and techno-economic design criteria
(Ch. Vinakos & N. Mountrichas)
- Investigation of seismic adequacy of modern methods of enhancement of artificial embankments and of natural soil slopes
(Th. Dedopoulos)
- Analysis and design of deep foundations construction with piles under static and dynamic loading
(A. Drizis)

B) Co-supervision of Diploma Theses (National Technical University of Athens)

- Dynamic analysis of pressures and deformations of retaining systems
(G. Klonaris, 1999)
- Dynamic analysis of Nikawa landslide, Kobe 1995
(P. Kallou, 1999)
- Contribution to the analysis of the effects of 1999 Athens earthquake
(H. Saounatsou, A. Sverkou, 2000)
- Analytical and numerical simulation of the phenomenon of sliding
(J. Sarraf, 2000)
- Numerical simulation of seismic response of gravity walls
(V. Drossos, 2001)
- Superstructure analysis and dynamic SSI in wind turbines
(M. Panagiotou, 2003)
- Seismic response of reinforced earth walls
(M. Karakitsou, 2004)
- Wave propagation in two typical valleys and soil-structure interaction
(F. Gelagoti, 2004)
- Seismic sea waves: Propagation, local amplification, effects on structures
(S. Tsimpourakis, 2005)
- Dynamic behavior of wind turbines and their interaction with soil
(E. Valavani, 2006)
- Dynamic distress of buildings due to explosions at underground excavation works
(A. Mandelenaki, 2008)
- Effect of underground projects in seismic distress of the overlying buildings
(G. Papazafeiropoulos, 2011)
- Development of a decision-support tool in GIS environment for the avoidance of geohazards during the routing of long pipelines
(S. Tsougranis, 2015)

- Examination of the impact of local topographic conditions to the seismic wave propagation via numerical modeling - Application to the hill of Acropolis (D. Kokkoris, 2015)
- Dynamic distress of retaining walls - Application to the south Wall of Acropolis (G. Dimopoulos, 2015)
- Seismic response of liquid-containing tanks with emphasis on the hydrodynamic distress and near-field phenomena (M. Calogerakou, 2015)
- Assessment of the geohazard of slope instability and pipeline route optimization (I. Micha, 2017)
- Seismic analysis and design of quay walls (D. Georgiou, 2017)
- Numerical simulation of the fault rupture propagation path and the soil - pipeline interaction (A. Maliagka, 2017)
- Assessment of earthquake-related geohazards and seismic design of pipelines in Iran (S.M.M. Seyedalhosseinintanzi)
- Assessment of earthquake-related geohazards and seismic design of pipelines in East Africa (N. Nsubuga)

C) Co-supervision of Master theses (at TUC & NTUA)

- Analysis of seismic response of landfills (TUC, I. Karabatsos, 2006)
- Dynamic interaction of retained and retaining structures (TUC, V. Avrana, 2006)
- Differential settlement and masonry buildings: Advanced modeling and methods of intervention (NTUA, S. Tsimpourakis, 2007)
- Study of the dynamic interaction of structure, retaining wall, and retained soil (TUC, G. Papazafeiropoulos, 2010)
- Offshore pipelines crossing active seismic faults (NTUA, M. Trimintzou, 2015)
- Offshore geohazards and route optimization of subsea cables (NTUA, D. Chavelas, 2016)

D) Co-supervision of Ph.D. theses (Supervisor: I. Tsompanakis – Technical University of Crete)

- Seismic loading of landfills: Failure mechanisms and methods of mitigation (V. Zania, 2009)
- Assessment of seismic behavior of reinforced geostructures (I. Tzavara, 2015)
- Risk management of seismic design and optimization of landfills based on the principles of performance-based design (E. Georgopoulos, ongoing)

9. PUBLICATION LIST

A) Dissertations

- 2001 PhD in Geotechnical Engineering
Dissertation: Numerical soil-dynamics analysis in the seismic design of bridge piers and abutments
- 1999 MSc in Structural Engineering (in cooperation with Imperial College, London, UK)
Dissertation: Seismic response analysis with the spectral-element method: Application to dams and tunnels
- 1994 BEng & MEng in Civil Engineering
Dissertation: Automated methods for generating and readjustment of finite-element meshes (in cooperation with the Department of Civil and Offshore Engineering, Heriot-Watt University, UK)

B) Book chapters

1. G. Gazetas & P. N. Psarropoulos, "Field Observations and Numerical Simulations", Chapter 3 in "3-D Site Effects and Soil-Foundation Interaction in Earthquake and Vibration Risk Evaluation", Edited by E. Faccioli, R. Paolucci, and M. Vanini, 1999.
2. P. N. Psarropoulos, "Local site effects and seismic response of bridges", in T. Schanz and R. Iankov (Eds.), Coupled site and soil-structure interaction effects with application to seismic risk mitigation, Springer, 2009.
3. V. Zania, Y. Tsompanakis & P. N. Psarropoulos, "The effect of soil-structure interaction and site effects on dynamic response and stability of earth structures", in T. Schanz and R. Iankov (Eds.), Coupled site and soil-structure interaction effects with application to seismic risk mitigation, Springer, 2009.
4. G. Papazafeiropoulos, Y. Tsompanakis & P. N. Psarropoulos, Dynamic interaction of concrete dams-reservoir-foundation: Analytical and numerical solutions, in M. Papadrakakis, N.D. Lagaros and M. Fragiadakis (Eds.), Computational Methods in Earthquake Engineering, ECCOMAS Series, Springer Publ., 2010.
5. Y. Tsompanakis & P.N. Psarropoulos, Dynamic soil-structure interaction: Reality versus seismic norms, in Topping B.H.V. (Ed.), Computational Methods for Engineering Science, Computational Science, Engineering and Technology Series No. 30, Saxe&Coburg Publ., Chapter 11, pp. 265-297, 2012.
6. Y. Tsompanakis, V. Zania & P. N. Psarropoulos, Advances in seismic slope stability analysis of earth structures, in "New trends in seismic design of structures", N.D. Lagaros, Y. Tsompanakis and Papadrakakis M. (Eds.), Saxe & Coburg, 2015.
7. P. N. Psarropoulos, Seismic distress of retaining walls and bridge abutments, in "New trends in seismic design of structures", N. D. Lagaros, Y. Tsompanakis and Papadrakakis M. (Eds.), Saxe & Coburg, 2015.

C) Journal papers

1. G. Gazetas, P. V. Kallou & P. N. Psarropoulos (2002), "Topography and soil effects in the M_s 5.9 Parnitha (Athens) earthquake: the case of Adames", *Natural Hazards*, 27, 133-169.
2. G. Gazetas, P. N. Psarropoulos, I. Anastasopoulos & N. Gerolymos (2004), "Seismic behavior of flexible retaining systems subjected to short-duration moderately-strong excitation", *Soil Dynamics & Earthquake Engineering*, 24, 537-550.
3. P. N. Psarropoulos, G. Klonaris & G. Gazetas (2005), "Seismic earth pressures on gravity and cantilever retaining walls", *Soil Dynamics & Earthquake Engineering*, 25, 795-809.
4. P. N. Psarropoulos, Y. Tsompanakis & Y. Karabatsos (2007), "Effects of local site conditions on the seismic response of municipal solid waste landfills", *Soil Dynamics & Earthquake Engineering*, 27, 553-563.
5. P. N. Psarropoulos, T. Tazoh, G. Gazetas & M. Apostolou (2007), "Linear and non-linear valley amplification effects on seismic ground motion", *Soils and Foundations*, 47-5, 857-872.
6. V. Zania, Y. Tsompanakis & P. N. Psarropoulos (2008), "Seismic distress and slope instability of municipal solid waste landfills", *Journal of Earthquake Engineering*, 12, 312-340.
7. V. Zania, P. N. Psarropoulos, Y. Karabatsos, Y. Tsompanakis (2008), "Inertial distress of solid waste landfills", *Computers & Structures*, 86, 642-651.
8. P. N. Psarropoulos & Y. Tsompanakis (2008), Stability of tailings dams under static and dynamic loading conditions, *Canadian Geotechnical Journal*, 45-5, 663-675.
9. Y. Tsompanakis, N.D. Lagaros, P. N. Psarropoulos & E. Georgopoulos (2009), Simulating the seismic response of embankments via artificial neural networks, *Advances in Engineering Software Journal*, 40(8), 640-651.
10. Y. Tsompanakis, N.D. Lagaros, P. N. Psarropoulos & E. Georgopoulos (2009), Probabilistic seismic slope stability assessment of geotechnical structures, Special Issue "Vulnerability Assessment of Structures and Infrastructures", *Journal of Structure and Infrastructure Engineering*, Vol. 6, Nos. 1-2, 179-191.
11. N.D. Lagaros, Y. Tsompanakis, P. N. Psarropoulos & E. Georgopoulos (2009), Computationally efficient seismic fragility analysis of geotechnical structures, *Journal of Computers & Structures*, 87(19-20), 1195-1203.
12. V. Zania, Y. Tsompanakis & P. N. Psarropoulos (2010), Base sliding and dynamic response of landfills, *Journal of Advances in Engineering Software*, Vol. 41, 349-358.
13. V. Zania, Y. Tsompanakis & P. N. Psarropoulos (2010), Seismic displacements of landfills and deformation of geosynthetics due to base sliding, *Geotextiles and Geomembranes Journal*, 28, 491-502.
14. G. Papazafeiropoulos & P. N. Psarropoulos (2010), Analytical evaluation of the dynamic distress of rigid fixed-base retaining systems, *Soil Dynamics & Earthquake Engineering*, 30, 12, 1417-1550
15. P. N. Psarropoulos, Y. Tsompanakis & G. Papazafeiropoulos (2011), Effects of soil non-linearities on the seismic response of restrained retaining walls, *Journal of Structure & Infrastructure Engineering*, 7, 12, 931-942.
16. P. N. Psarropoulos, A. A. Antoniou (2014), Designing onshore high-pressure gas pipelines against the geohazard of earthquake-induced slope instabilities, *Pipeline Technology Journal*, ISSN 2196-4300, 66-85.
17. I. Tzavara, Y. Tsompanakis, V. Zania & P. N. Psarropoulos (2015), Numerical dynamic analysis of geosynthetically reinforced geotechnical structures, *International Research Journal of Engineering and Technology*, 2(6), 1-8.

18. I. Tzavara, Y. Tsompanakis, V. Zania & P. N. Psarropoulos (2015), Comparison of seismic slope stability assessment methods for reinforced geostructures, *International Research Journal of Engineering and Technology* 2(7), 30-38.
19. M. S. Trimintziou, M. G. Sakellariou & P. N. Psarropoulos (2015), Designing offshore pipelines facing the geohazard of active seismic faults, *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, 9(6), 760-769.
20. M. E. Kalogerakou, C.A. Maniatakis, C.C. Spyarakos, P. N. Psarropoulos (2017), Seismic response of liquid-containing tanks with emphasis on the hydrodynamic distress and near-fault phenomena, *Engineering Structures*, 153, 383-403.
21. P. N. Psarropoulos, (2017), The seismic risk of new and existing dams, Special Issue on the 10th Word Congress on Water Resources and Environment, *European Water*, 60: 81-88.
22. P. N. Psarropoulos, E. Kapogianni, I. Kalogeras, D. Michalopoulou, V. Eleftheriou, G. Dimopoulos, M. Sakellariou, Seismic response of the Circuit Wall of the Acropolis of Athens: Recordings versus numerical simulations, *Soil Dynamics & Earthquake Engineering* (under review).
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NOTE 1: Apart from the aforementioned publications, there exist more than 50 publications in Greek national conferences, workshops, etc.

NOTE 2: The aforementioned publications have almost 300 citations (with a Scopus h-index = 8).