

Ioannis N. Psycharis, Ph.D.
Professor of Earthquake Engineering



AREAS OF SPECIALIZATION AND FIELDS OF INTEREST

- Seismic response and design of modern structures, historical buildings and classical monuments, analytically and experimentally.
- Repairing and strengthening of structures.
- Seismic isolation.
- Innovative methods in seismic design.
- Soil-structure interaction.
- Engineering seismology.

CURRENT POSITION

Professor National Technical University of Athens (NTUA), School of Civil Engineering, Department of Structural Engineering, Laboratory for Earthquake Engineering
Faculty member of NTUA since 1987

EDUCATION

1977 – 1981 Ph.D. in Civil Engineering, California Institute of Technology, Pasadena, California, U.S.A.
1976 – 1977 M.Sc. in Civil Engineering, California Institute of Technology, Pasadena, California, U.S.A.
1971 – 1976 Diploma, School of Civil Engineering, National Technical University of Athens, Greece.

ACADEMIC ACTIVITY

Teaching

Undergraduate courses at NTUA

- Earthquake Resistant Structures
- Earthquake Engineering 1
- Earthquake Engineering 2

Graduate courses at NTUA

- Aseismic Design and Analysis of Structures
- Engineering Seismology
- Analysis of Cultural Heritage Structures (participation)

Graduate courses at the Greek Open University

- Engineering Seismology and Soil Dynamics

Supervision of Ph.D. Theses

“Contributions to the dynamic analysis of yielding systems to near-fault earthquake motions” by E. Voyagaki (2013).

“Investigation of the behavior and vulnerability criteria of structures to near-fault ground excitations” by P. Mimoglou (on going).

“Investigation of the response of ancient monuments under seismic excitations” by A. Vrouva (on going).

“Investigation of the directivity effects of near-fault ground motions on the seismic design of structures” by S. Kousidi (on going).

“Seismic design of innovative connections of cladding systems – experimental and analytical investigation” by I. Kalyviotis (on going).

“Indices of the ground motion for the analysis of the seismic vulnerability of structures”, by B. Kardoutsou (on going)

Supervision of Diploma and Master Theses

- Diploma theses at NTUA: more than 75
- Master theses at NTUA: more than 30
- Master theses at Greek Open University: more than 15

RESEARCH PROJECTS

As Principal Investigator

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| 2012 – 2015 | “Improved fastening systems of cladding wall panels of precast buildings in seismic zones (SAFECLADDING)”, European Commission (FP7). |
| 2009 – 2012 | “Performance of innovative mechanical connections in precast buildings structures under seismic conditions (SAFECAST)”, European Commission (FP7). |
| 2009 - 2013 | “Seismic Engineering Research Infrastructures for European Synergies (SERIES)”, European Commission (FP7). |
| 2008 | “Investigation of the vulnerability of the restoration scenarios for the long walls of the Parthenon under seismic excitation”, Committee for the Restoration of the Acropolis Monuments. |
| 2008 – 2011 | “Analytical investigation of the dynamic response of non-linear systems to near-fault pulses”, NTUA, Basic research program. |
| 2008 – 2010 | “Study of the seismic behavior of the columns of the E. façade of the Temple of Aphrodite in Amathus, Cyprus”, French Archaeological School of Athens. |
| 2006 – 2012 | “Investigation of the dynamic characteristics of the Church of Panhagia Krina in Chios before and after the interventions”, Greek Ministry of Culture. |
| 2001 – 2005 | “Study of the seismic response of the columns of the Temple of Olympios Zeus – Application to the investigation of the long-term seismicity of Athens”, Organization for the Seismic Planning and Protection (OASP). |
| 2001 – 2002 | “Application of the Distinct Element Method to the seismic response of traditional houses in Cyprus”, Research Foundation of Cyprus. |
| 1995 – 1997 | “Pipes that cross active faults”, Organization for the Seismic Planning and Protection (OASP). |
| 1994 – 1995 | “Investigation of the seismic response of ancient monuments”, General Secretariat for the Research and Technology (program PENED '91). |
| 1986 – 1987 | “Criteria and guidelines for the design of cylindrical tanks for storage of liquids”, General Secretariat for the Research and Technology. |

As member of the research team

Participation in another 12 National and European research projects.

SCIENTIFIC ACTIVITY AND RECOGNITION

Citations

665 citations according to Google scholar

Reviews

Reviewer for the international journals:

- Earthquake Engineering and Structural Dynamics
- Journal of Structural Engineering, ASCE
- Journal of Engineering Mechanics, ASCE
- Journal of Computing in Civil Engineering, ASCE
- Earthquake Spectra, EERI
- Soil Dynamics and Earthquake Engineering
- Bulletin of Earthquake Engineering
- Earthquakes and Structures
- Engineering Structures
- Bulletin of the Seismological Society of America
- Structural Engineering International, IABSE
- Structural Concrete
- International Journal of Solids and Structures
- Structural Engineering and Mechanics
- International Journal of Architectural Heritage
- Journal of Cultural Heritage
- Strain
- Mechanics Research Communications
- Journal of Sound and Vibration
- Structural Engineering Review
- Computing Systems in Engineering
- Computers and Structures
- Mathematical Problems in Engineering
- Engineering Failure Analysis
- International Journal of Mechanical and Materials Engineering
- Arabian Journal for Science and Engineering
- International Journal of Mechanical and Materials Engineering
- Advances in Structural Engineering

Reviewer of research projects for:

- National Fellowship Foundation (I.K.Y.)
- Research Foundation of Cyprus

Reviewer of Conference papers

Member of the Organizing Committee and the Scientific Committee of many National Conferences and Organizer of Minisymposia.

Positions held

- National Delegate of Greece in the International Association for Earthquake Engineering, 2010 – today
- Member of the board of the Hellenic Society for Earthquake Engineering

Member of Scientific Committees

- 2nd Scientific Committee of Aseismic Structures and Engineering Seismology, OASP, 2006 – 2010
- Scientific Committee for the design and pre-earthquake inspection of school buildings, Organization of School Buildings, 2010 – today

- Bureau of Engineering Seismology of the Academy of Athens, 2009 – 2013
- Task Group TG.6.10 of fib (International Federation of Concrete)
- Scientific Committee for the Eurocodes, Technical Chamber of Greece, 2005 – 2009
- Task Group for guideline rules for the pre-earthquake inspection of public buildings, OASP, 1998-2000.
- Scientific Committee of Earthquake Engineering, Technical Chamber of Greece, 1989-1992.

Seminars

Tutor of Seminars for Civil Engineers organized by:

- the Technical Chamber of Greece
- the Municipality of Athens
- the Greek Association of Civil Engineers
- the Ministry of public Works
- the National Technical University of Athens

PROFESSIONAL SOCIETIES

- American Society of Civil Engineers (ASCE).
- Structural Engineering Institute (SEI) of ASCE
- Earthquake Engineering Research Institute (EERI)
- Hellenic Society for Earthquake Engineering
- Technical Chamber of Greece
- Greek Association of Civil Engineers

PROFESSIONAL ACTIVITY

Consulting Engineer to Design Offices on issues related to the design of bridges and buildings. He has also worked at the Directorate of Technical Works of Highways of the Greek Ministry of Public Works.

Structural Design of technical works

- Design of more than 90 bridges
- Evaluation of the dynamic stability of the pylons of the Rion-Antirion bridge
- Design of more than 10 buildings and 2 railway stations
- Design of 2 toll stations
- Design of the lining of 5 tunnels
- Assessment of the seismic stability for the restoration of 2 ancient monuments
- Evaluation of the interventions to a byzantine church
- Design of numerous retaining walls and culverts
- Design of numerous hydraulic works
- Assessment of the structural stability of a public building

Review of Structural Designs

- Check of the structural design of about 70 bridges
- Check of the structural design of the lining of 3 tunnels
- Check of the structural design of numerous retaining walls and culverts

Other projects

- First degree assessment (visual inspection) of numerous school buildings

PUBLICATIONS

Papers in refereed journals

- Dertimanis, V.K., Mouzakis, H.P., Psycharis, I.N. (2014) "On the acceleration-based adaptive inverse control of shaking tables and its implications to hybrid testing", *Earthquake Engineering and Structural Dynamics* (under review).
- Mimoglou, P., Psycharis, I.N., Taflampas, I.M. (2014) "Explicit determination of the pulse inherent in pulse-like ground motions", *Earthquake Engineering and Structural Dynamics* (in print).
- Voyagaki, E., Psycharis, I.N., Mylonakis, G. (2014) "Complex Response of a Rocking Block to a Full-Cycle Pulse", *Journal of Engineering Mechanics, ASCE*, Vol. 140, No. 6.
- Psycharis, I., Fragiadakis, M., Stefanou, I. (2013) "Seismic reliability assessment of classical columns subjected to near-fault ground motions", *Earthquake Engineering and Structural Dynamics*, Vol. 42, pp. 2061–2079.
- Maniatakis, Ch.A., Psycharis, I.N., Spyrakos, C.C. (2013) "Effect of higher modes on seismic response and design of moment-resisting RC frame structures", *Engineering Structures*, Vol. 56, pp. 417-430.
- Voyagaki, E., Psycharis, I.N., Mylonakis, G. (2012) "Rocking Response and Overturning Criteria for Free Standing Rigid Blocks to Single - Lobe Pulses", *Soil Dynamics and Earthquake Engineering*, Vol. 46, pp. 85–95.
- Psycharis, I.N. and Mouzakis, H.P. (2012) "Assessment of the seismic design of precast frames with pinned connections from shaking table tests", *Bulletin of Earthquake Engineering*, Vol. 10, pp. 1795–1817.
- Ambraseys, N. and Psycharis, I. N. (2012) "Assessment of the long-term seismicity of Athens from two classical columns", *Bulletin of Earthquake Engineering*, Vol. 10, pp. 1635–1666.
- Voyagaki, E., Mylonakis, G., Psycharis, I.N. (2012) "Plastic Input Motion: a Transformation for the Response of Yielding Oscillators", *Journal of Engineering Mechanics, ASCE*, Vol. 138, No. 7, pp. 749–760.
- Voyagaki, E., Mylonakis, G., Psycharis, I.N. (2012) "Rigid Block Sliding to Idealized Acceleration Pulses", *Journal of Engineering Mechanics, ASCE*, Vol. 138, No. 9, pp. 1071-1083.
- Psycharis, I.N. and Mouzakis, H.P. (2012) "Shear resistance of pinned connections of precast members to monotonic and cyclic loading", *Engineering Structures*, Vol. 41, pp. 413–427.
- Spyrakos, C.C., Maniatakis, Ch.A., Smyrou, E. and Psycharis, I.N. (2012) "FRP Strengthened Brick-Infilled RC Frames: An Approach for their Proper Consideration in Design", *The Open Construction and Building Technology Journal*, Vol. 6, (Suppl 1-M19), pp. 306-324.
- Voyagaki, E., Mylonakis, G., Psycharis, I.N. (2011) "A shift approach for the dynamic response of rigid-plastic systems", *Earthquake Engineering and Structural Dynamics*, Vol. 40, pp.847–866.
- Ambraseys, N. and Psycharis, I. N. (2011) "Earthquake stability of columns and statues", *Journal of Earthquake Engineering*, Vol. 15, pp. 685-710.
- Stefanou, I., Psycharis, I. Georgopoulos, I.-O. (2011) "Dynamic response of reinforced masonry columns in classical monuments", *Constructions and Building Materials*, Special Issue "Masonry Research and Practice" Vol. 25, pp. 4325–4337.
- Psycharis, I. N., Mouzakis, H. P., Miltiadou, A., Pavlopoulou, E. P., Taflampas, I. M. (2010) "Investigation of the seismic response of a Byzantine church and evaluation of the effectiveness of proposed interventions", *Earthquake Spectra*, Vol. 26, No. 2, pp. 473-497.
- Psycharis, I.N. (2008) "Investigation of the Dynamic Response of Rigid Footings on Tensionless Winkler Foundation", *Soil Dynamics and Earthquake Engineering*, Vol. 28, pp. 577-591.
- Psycharis, I. N. (2007) "A Probe into the Seismic History of Athens, Greece from the Current State of a Classical Monument", *Earthquake Spectra*, Vol. 23, No. 2, pp. 393-415.
- Psycharis, I. N. and Mageirou, G. E. (2004) "Investigation Of The Seismic Behaviour of Bridges with Elastomeric Bearings and Seismic Stoppers", *Technika Chronika*, T.E.E., No. 2, Series I, pp. 79-95 (in Greek).
- Psycharis, I. N., Lemos, J. V., Papastamatiou, D. Y., Zambas, C. and Papantonopoulos, C. (2003) "Numerical Study of the Seismic Behaviour of a Part of the Parthenon Pronaos", *Earthquake Engineering and Structural Dynamics*, Vol.32, pp. 2063-2084.

- Mouzakis, H., Psycharis, I. N., Papastamatiou, D. Y., Carydis, P. G., Papantonopoulos, C. and Zambas, C. (2002) "Experimental investigation of the earthquake response of a model of a marble classical column", *Earthquake Engineering and Structural Dynamics*, Vol. 31, pp. 1681-1698.
- Papantonopoulos, C., Psycharis, I. N., Papastamatiou, D. Y., Lemos, J. V. and Mouzakis, H. (2002) "Numerical Prediction of the Earthquake Response of Classical Columns Using the Distinct Element Method", *Earthquake Engineering and Structural Dynamics*, Vol. 31, pp. 1699-1717.
- Mylonakis, G., Papastamatiou, D., Psycharis, J. and Mahmoud, K. (2001) "Simplified Modeling of Bridge Response on Soft Soil to Nonuniform Seismic Excitation", *Journal of Bridge Engineering, ASCE*, Vol. 6, No. 6, pp. 587-597.
- Psycharis, I. N., Papastamatiou, D. Y. and Alexandris, A. (2000) "Parametric Investigation of the Vulnerability of Classical Columns under Harmonic and Earthquake Excitations", *Earthquake Engineering and Structural Dynamics*, Vol. 29, pp. 1093-1109.
- Vayas I. and Psycharis I. (1993) "Ein Dehnungsorientiertes Verfahren zur Ermittlung der Duktilität bzw. Rotationskapazität von Tragern aus I-Profilen", *Der Stahlbau*, Vol. 62, H. 11, pp. 333-341.
- Papastamatiou D. and Psycharis I. (1993) "Seismic Response of Classical Monuments - A Numerical Perspective Developed at the Temple of Apollo in Bassae, Greece", *Terra Nova*, Vol. 5, pp. 591-601.
- Vayas I. and Psycharis I. (1992) "Dehnungsorientierte Formulierung der Methode der Wirksamen Breite", *Der Stahlbau*, Vol. 61, H. 9, pp. 275-283.
- Psycharis I. N. (1991) "Effect of Base Uplift on the Dynamic Response of SDOF Structures", *Journal of Structural Engineering, ASCE*, Vol. 117, No. 3, pp. 733-754.
- Psycharis I. N., "Dynamic Behaviour of Rocking Two-Block Assemblies" (1990) *Earthquake Engineering and Structural Dynamics*, Vol. 19, pp. 555-575.
- Psycharis I. N. and Jennings P. C. (1985) "Upthrow of Objects Due to Horizontal Impulse Excitation", *Bulletin of the Seismological Society of America*, Vol. 75, No.2, pp. 543-561.
- Psycharis I. N. (1983) "Dynamics of Flexible Systems with Partial Lift-Off", *Earthquake Engineering and Structural Dynamics*, Vol. 11, pp. 501-521.
- Psycharis I. N. and Jennings P. C. (1983) "Rocking of Slender Rigid Bodies Allowed to Uplift", *Earthquake Engineering and Structural Dynamics*, Vol. 11, pp. 57-76.

Papers in Conference Proceedings

- Psycharis, I., Kalyviotis, I. (2014). "Experimental and numerical investigation of fixed connections of RC cladding walls to precast buildings", *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, Aug. 25-29.
- Stefanou, I., Fragiadakis, M., Psycharis, I.N. (2014). "Vulnerability assessment of classical columns with dislocated drums", *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, Aug. 25-29.
- Kardoutsou, V., Taflampas, I., Psycharis, I. (2014). "A new method for the classification of ground motions as pulse-like or non pulse-like", *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, Aug. 25-29.
- Avgenakis, E., Psycharis, I., Taflampas, I. (2014). "Estimation of the ground motion in the epicentral region of the Athens, Greece (1999) earthquake", *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, Aug. 25-29.
- Dertimanis, V.K., Mouzakis, C.P., and Psycharis, I.N. (2014). "Real-Time Shaking Table Adaptive Modeling under Acceleration Control: Effects of Training Signals and Specimen Dynamics", *6th World Conference on Structural Control and Monitoring (6WCSCM)*, Barcelona, Spain, 996-1008.
- Psycharis, I., Fragiadakis, M., Stefanou, I. (2013) "Seismic reliability assessment of classical columns subjected to near-fault ground motions", *4th International Conference on Computational Dynamics and Earthquake Engineering (COMPdyn 2013)*, Kos, Greece, 12-14 June.
- Kremmyda, G.D., Fahjan, Y.M., Psycharis, I.N. (2013) "Analytical prediction of the shear resistance of precast RC pinned beam-to-column connections", *4th International Conference on Computational Dynamics and Earthquake Engineering (COMPdyn 2013)*, Kos, Greece, 12-14 June.

- Spyrakos, C.C., Maniatakis, C.A., Psycharis, I.N., Smyrou, E., Asteris, P.G. (2013). "Validation of analytical models for the assessment of brick-infilled rc frames strengthened with FRPs", *4th International Conference on Computational Dynamics and Earthquake Engineering (COMPdyn 2013)*, Kos, Greece, 12-14 June.
- Vogiatzaki, E., Psycharis, I.N., Mylonakis, G.E. (2013). "Overturning criteria for free-standing rigid blocks to earthquake pulses", *10th HSTAM International Congress on Mechanics*, Chania, Crete, Greece, 25-27 May.
- Psycharis, I., Toumbakari E.-E. (2012) "Parametric investigation of the seismic vulnerability of the proposed restoration of the colonnade of the Temple of Aphrodite in Amathus, Cyprus", *3rd Hellenic Conference on Restoration*, Athens, 1-3 Nov. (in Greek).
- Voyagaki, E., Psycharis, I.N., Mylonakis, G. (2012) "Rocking Response and Overturning Criteria for Free Standing Blocks to Single – Lobe Pulses", *15th World Conference on Earthquake Engineering*, Lisbon, 24-28 Sept.
- Dasiou, M.E., Psycharis, I.N., Vrouva, A. (2012) "Investigation of induced seismic forces at joints of classical columns for design purposes", *15th World Conference on Earthquake Engineering*, Lisbon, 24-28 Sept.
- Psycharis, I.N., Mouzakis, H.P. (2012) "Monotonic, cyclic and shaking table tests on pinned beam-column connections", *15th World Conference on Earthquake Engineering*, Lisbon, 24-28 Sept.
- Psycharis, I. N., Sideri, M., Taflampas, I. M. (2011) "Effect of soil conditions on the characteristics of near-field ground motions", *XV European Conference on Soil Mechanics & Geotechnical Engineering, ERTC-12 Workshop on Evaluation of EC8*, Athens, 11 Sep.
- Voyagaki, E., Mylonakis, G., Psycharis, I. N. (2011) "A translational theorem for yielding systems", *5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 Jan.
- Dasiou, M.-E., Psycharis, I.N., Vrouva, A. (2011) "Numerical investigation of the seismic behaviour of connections of ancient colonnades", *COMPdyn 2011*, Corfu, 25-28 May.
- Toumbakari, E.-E. and Psycharis, I. N. (2010) "Parametric investigation of the seismic response of a column of the Aphrodite Temple in Amathus, Cyprus", *14th European Conference on Earthquake Engineering*, Ohrid, 30 Aug. – 3 Sept.
- Tsoukantas S., Psycharis, I. (2009) "SAFECAS: The most contemporary European project with the participation of Greece on the behavior of connections of precast linear elements to seismic loading", Keynote lecture, *16th Hellenic Conference on RC Structures*, Paphos, Cyprus, 21-23 Oct. (in Greek).
- Dasiou, M.E., Mouzakis, H.P., Psycharis, I.N., Papantonopoulos, C., Vayas, I. (2009) "Experimental investigation of the seismic response of parts of ancient temples", *Prohitech Conference*, Rome, 21-24 June.
- Dasiou, M.E., Psycharis, I.N., Vayas, I. (2009) "Verification of numerical models used for the analysis of ancient temples", *Prohitech Conference*, Rome, 21-24 June.
- Dasiou, M.E., Psycharis, I.N., Vayas, I. (2009) "Numerical investigation of the seismic response of Parthenon, Greece", *Prohitech Conference*, Rome, 21-24 June.
- Psycharis, I.N., Drougas, A.E., Dasiou, M.-E. (2009) "Seismic Behaviour of the Walls of the Parthenon - A Numerical Study", *COMPdyn 2009*, Rhodes, 22-24 June.
- Dasiou, M.-E., Psycharis, I. and Vayas I. (2008) "Analysis of the seismic response of columns and colonnades of classical temples", *3rd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, 5-7 Nov. (in Greek).
- Mouzakis, H., Dasiou, M.-E., Psycharis, I., Papantonopoulos, C., Vayas, I. (2008) "Experimental investigation of columns and colonnades of classical temples", *3rd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, 5-7 Nov. (in Greek).
- Psycharis, I., Tasiouli, K. (2008) "Parametric investigation of the effect of the base motion characteristics to the response of bridges with seismic isolation", *3rd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, 5-7 Nov. (in Greek).
- Psycharis, I., Mouzakis, H., Pavlopoulou E., Miltiadou, A., Taflampas, I. (2008) "Analysis of the seismic response of a Byzantine Church before and after the interventions", *3rd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, 5-7 Nov. (in Greek).

- Taflampas, I., Psycharis, I. (2008) "Investigation of the effect of the base motion characteristics to the inelastic response of DSOF structures", *3rd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, 5-7 Nov. (in Greek).
- Voyagaki, E., Mylonakis, G., Psycharis, I. (2008) "Sliding of rigid blocks on inclined surfaces for idealized pulses", *3rd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Athens, 5-7 Nov. (in Greek).
- Taflampas, I., Psycharis, I.N. (2008) "Investigation of the effect of the ground motion characteristics on the R_y - μ relation for the inelastic response of SDOF structures", *14th World Conference on Earthquake Engineering*, Beijing, China, 12-17 Oct.
- Voyagaki, E., Mylonakis, G., Psycharis, I.N. (2008) "Response of sliding structures to near-fault pulses: numerical and analytical solutions", *14th World Conference on Earthquake Engineering*, Beijing, China, 12-17 Oct.
- Voyagaki, E., Mylonakis, G., Psycharis, I.N. (2008) "Sliding Blocks Under Near-Fault Pulses: Closed-Form Solutions", *4th Dicennial Geotechnical Earthquake Engineering and Soil Dynamics Conference, ASCE*, Sacramento, California, 18-22 May.
- Psycharis, I., Mouzakis, H., Pavlopoulou, E., Miltiadou, A. (2007) "Investigation of the Seismic Response of a Byzantine Church – Comparison with the Existing Damage", *International Symposium on Studies on Historical Heritage*, Antalya, Turkey, 17-21 Sept.
- Psycharis, I.N., Mouzakis, H.P., Carydis, P.G., Tsoukantas, S.G., Kremmyda, G.D. (2007) "Experimental Results of a Full-Scale Investigation on the Seismic Behaviour of Precast RC Structures", *3rd International Conference on Structural Engineering, Mechanics and Computation (SEMC 2007)*, Cape Town, S. Africa, 10-12 Sept.
- Psycharis, I.N. (2007) "Parametric Investigation of the Rocking of Footings under Harmonic Excitation", *4th International Conference on Earthquake Geotechnical Engineering*, Thessaloniki, Greece, 25-28 June.
- Psycharis, I.N. (2007) "Using Classical Monuments for the Assessment of Past Earthquake Scenarios", *4th International Conference on Earthquake Geotechnical Engineering – Workshop on Geotechnical Earthquake Engineering Related to Monuments and Historical Centers*, Thessaloniki, Greece, 25-28 June.
- Psycharis, I.N. and Arachovitis, N.I. (2006) "Comparison between alternative applications of the pushover analysis and other simplified methods for the estimation of the nonlinear response of structures", *15th Hellenic Conference on RC Structures*, Alexandroupolis, Greece, 25-27 Oct. (in Greek).
- Psycharis, I.N., Mouzakis, H.P., Carydis, P.G. and Kremmyda, G.D. (2006) "Experimental results on the seismic response of connections of linear precast R.C. members", *15th Hellenic Conference on RC Structures*, Alexandroupolis, Greece, 25-27 Oct. (in Greek).
- Psycharis, I. N. (2006) "Seismic Response of Classical Monuments with Fractured Structural Elements", *16th European Conference of Fracture (ECF16) – Symposium on "Fracture and Failure Natural Building Stones – Application in the Restoration of Ancient Monuments"*, Alexandroupolis, Greece, 3-7 July.
- Psycharis, I. N., Mouzakis, H. P. and Carydis, P. G. (2006) "Experimental Investigation of the Seismic Behaviour of Prefabricated RC Structures", *2nd International fib Congress*, Naples, Italy, 5-8 June.
- Alexandris, A. Protopapa E. and Psycharis, I. (2004) "Collapse mechanisms of masonry buildings derived by the distinct element method", *13th World Conference on Earthquake Engineering*, Paper No. 548, Vancouver, Canada, 1-6 Aug.
- Psycharis, I. N. (2004) "Dynamic Response of a Part of the Temple of Olympios Zeus (Olympieion) in Athens, Greece to Harmonic and Earthquake Excitations", *3rd European Conference on Structural Control (3ECSC)*, Vienna, Austria, 12-15 July.
- Psycharis, I. N. and Mageirou, G. E. (2003) "Parametric Investigation of the Inelastic Seismic Response of Bridges With Elastomeric Bearings Combined With Stoppers", *Proceedings of the fib symposium: "Concrete Structures in Seismic Regions"*, Athens, 6-8 May.
- Psycharis, I. N., Syngros, C., Mimoglou, P. and Taflambas, I. (2002) "Parametric Investigation Of The Overturning Of Rigid Blocks Under Dynamic Loading", *12th European Conference on Earthquake Engineering*, London, 9-13 Sept.
- Psycharis, I., Papastamatiou, D., Carydis, P., Papantonopoulos, K., Alexandris, A., Mouzakis, H., Zambas, K. and Lemos, J. V. (2001) "Numerical and Experimental Investigation of the Seismic Behaviour of Classical

- monuments", *2nd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Vol. A, pp. 277-286, Thessaloniki, 28-30 Nov. (in Greek).
- Psycharis, I., Sygros, K., Mimoglou, P. and Taflambas, I. (2001) "Parametric Investigation of the Toppling of Rigid Bodies under Harmonic and Seismic Excitation", *2nd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Vol. A, pp. 267-276, Thessaloniki, 28-30 Nov. (in Greek).
- Alexandris, A., Psycharis, I. And Protopapa, E. (2001) "The Collapse of the Temple of Zeus in Olympia – Back Analysis with the Distinct Element Method", *2nd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Vol. A, pp. 297-306, Thessaloniki, 28-30 Nov. (in Greek).
- Vougioukas, E. and Psycharis, I. (2001) "Experimental Investigation of the Inelastic Behaviour Buried Pipelines for Large Ground Displacements", *2nd Hellenic Conference on Earthquake Engineering and Engineering Seismology*, Vol. B, pp. 323-330, Thessaloniki, 28-30 Nov. (in Greek).
- Mylonakis, G., Nikolaou, S., Papastamatiou, D. and Psycharis, J. (1999) "Simple Model for Response of Bridges to Non-Uniform Seismic Excitation", *8th Canadian Conference on Earthquake Engineering*, Vancouver, 13-16 June.
- Psycharis, I. N., Papastamatiou, D. J. and Alexandris, A. P. (1998) "Harmonic and Earthquake Response of a Classical Column", *11th European Conference on Earthquake Engineering*, Paris, 6-11 Sept.
- Papantonopoulos, C., Mouzakis, H., Papastamatiou, D., Psycharis, I., Zambas, C. and Lemos, J. V. (1998) "Predictability of Experiments on the Seismic Response of Classical Monuments", *11th European Conference on Earthquake Engineering*, Paris, 6-11 Sept..
- Kavvas, M., Psycharis, I. and Seferoglou, C. (1998) "Non-Linear Finite Element Analysis of the NATM Excavation of an Underground Station for the Athens Metro", *4th International Conference on Case Histories in Geotechnical Engineering*, Saint Louis, Missouri, 8-15 March.
- Kavvas, M., Psycharis, I. and Seferoglou, C. (1997) "Non-Linear Finite Element Analysis of the NATM Excavation of an Underground Station for the Athens Metro", *3rd Hellenic Geotechnical Conference*, Patras, Greece, 20-22 March (in Greek).
- Psycharis, I. and Kypris, N. (1996) "Inelastic Seismic Response of Bridges with Elastomeric Bearings", *12th Hellenic Conference on RC Structures, TEE*, Lemessos, Cyprus, 29-31 Oct. (in Greek).
- Carydis P. G., Mouzakis H. P., Papantonopoulos C., Papastamatiou D., Psycharis I. N., Vougioukas E. A. and Zambas C. (1996) "Experimental and Numerical Investigations of the Earthquake Response of Classical Monuments", *11th World Conference on Earthquake Engineering*, Acapulco, Mexico, 23-28 June.
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