

Curriculum Vitae

MICHALIS FRAGIADAKIS, PhD



Personal Information

Name: Michail
Surname: Fragiadakis
Preferred name: **Michalis Fragiadakis**
Birth date: 24 December 1976
Current position: Professor
Laboratory for Earthquake Engineering
School of Civil Engineering, National Technical University
of Athens (NTUA)
Vice President, Earthquake Planning and Protection Organisation (EPPO)
Researcher IDs: ORCID: 0000-0002-0698-822X, Scopus: 6505461799
Publication metrics: h-factor: 27/34 ([Scopus](#)/[Google Scholar](#))
citations: 2777/4476 ([Scopus](#)/[Google Scholar](#))

Contact Information

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Research Interests

- Earthquake Engineering
- Structural Dynamics
- Reliability, risk and hazard assessment lifelines and infrastructure

- Numerical methods in structural analysis and design
- Signal processing & Structural Health Monitoring
- Bridge Engineering: Design, Inspection, Restoring
- Structural design and assessment to the Eurocodes
- Advanced Machine Learning applications in Civil Engineering

Education

- 2002 – 2006 PhD in Civil Engineering, School of Civil Engineering, National Technical University of Athens
- 2001 – 2002 MSc in Structural Analysis and Design, School of Civil Engineering, National Technical University of Athens
- 2000 – 2001 MSc in Earthquake Engineering and Structural Dynamics, Department of Civil and Environmental Engineering, Imperial College of Science Technology and Medicine, United Kingdom
- 1995 – 2000 Degree in Civil Engineering, School of Civil Engineering, National Technical University of Athens
- 1995 High-school education.

Affiliations

- 28/8/2024 – today **National Technical University of Athens**
School of Civil Engineering, Professor
- 1/2/2021 – today **Nireas International Water Research Center**
University of Cyprus, Dept. Civil Engineering, Affiliated Member
- 1/10/2020 – today **Hellenic Open University, Teaching Staff** (External Teaching Staff)

Academic Appointments

- 28/8/2024 – today **National Technical University of Athens**
School of Civil Engineering, Professor
- 1/9/2023 – 31/08/2025 **National Technical University of Athens**
School of Civil Engineering, Head of Structures Department
- 1/12/2022 – 30/11/2025 **National Technical University of Athens**
School of Civil Engineering, Director of Lab of Earthquake Engineering

- 1/1/2021 – 29/8/2024 **National Technical University of Athens**
School of Civil Engineering, Associate Professor
- 1/1/2021 – 31/12/2023 **Université Gustave Eiffel**
MAST/EMGCU Laboratory, Visiting Professor
("FUTURE-iSites" project)
- 1/9/2020 – 10/10/2020 **Université Paris-Est**
Département études doctorales - EMGCU/IFSTTAR, Visiting Professor
- 10/5/2016 – 30/12/2020 **National Technical University of Athens**
School of Civil Engineering, Assistant Professor
- 20/4/2017 – 30/9/2017 **Institute Mécanique des Fluides Toulouse (IMFT)**
Toulouse, France, Visiting Professor
- 27/12/2013 - 10/5/2016 **National Technical University of Athens**
School of Civil Engineering, Lecturer
- 1/9/2012 – *today* **School of Corps of Engineers of the Hellenic Army (SCEHA)**
Adjunct Lecturer
- 3/5/2010 – 31/12/2013 **University of Cyprus**
Department of Civil & Environmental Engineering, Post-doctoral researcher
- 1/3/2007 – 31/8/2011 **University of Thessaly**
Department of Civil Engineering, Adjunct Lecturer
- 1/5/2007 – 31/1/2009 **University of Pavia**
Department of Structural Mechanics, Post-doctoral researcher

Foreign languages

- English (C2 level, fluent) (Cambridge Proficiency in English, May 1997)
- French (B2 level), (Diplôme d'études en langue française DELF, May 2022)
- German (B1 level) (Deutsch Fremdsprache für Ausländer, June 1992).

Teaching

Current teaching duties:

School of Civil Engineering, National Technical University of Athens:

- Nonlinear finite element modeling of frame structures (graduate course, since 2007)
- Signal processing and Structural Health Monitoring (graduate course, since 2018)
- Data driven models in Engineering (graduate course, since 2021)
- Structural Intervention on Cultural Heritage Structures (graduate course, since 2024)
- Earthquake Engineering 1 & 2

Bridge Engineering

Reliability analysis

Cap-stone project

School of Corps of Engineers of the Hellenic Army (SCEHA):

Seismic Design of Structures 1 & 2

Hellenic Open University:

MSc on Construction Methods in Engineering

Past teaching duties:

School of Civil Engineering, National Technical University of Athens:

Reliability analysis

Laboratory on Structural Modeling

Engineering solution methods using computers (3 Semesters, 2015-2017)

Structural Analysis V: Elasto-plastic analysis of structures (Teaching Assistant)

School of Corps of Engineers of the Hellenic Army (SCEHA):

Analysis and Design of Bridges I (2012-2020)

Analysis and Design of Bridges II (2012-2020)

Reinforced Concrete II (1 Semester, 2012-2013)

Department of Civil Engineering, University of Thessaly:

Analysis and design of Surface Structures (5 Semesters, 2006-2011)

Structural Analysis II (2 Semesters, 2008-2009 & 2010-2011)

Structural Analysis I (1 Semester, 2009-2010)

Structural Dynamics (1 Semester, 2007-2008)

Department of Structural Engineering, TEI of Heraklion, Crete:

Structural Calculations (2 Semesters, 2005-2006)

Structural Analysis II (2 Semesters, 2005-2006)

Academic Advising (Principal Advisor or Co-Advisor)

Postdoctoral researchers collaboration with 3 postdoctoral researchers:

PDoc3. S. Diamantopoulos

PDoc2. M. Georgioudakis

PDoc1. E. Toy

Ph.D. Level advised (or co-advised) 9 PhD students:

P11. Xenakis V.: Development of novel methods for the assessment and the structural health monitoring of bridges.

- P10. Stamou A.: Artificial Intelligence methods for solving inverse problems and Digital Twin updating.
- P9. Magkanaris P.: Methods for the structural assessment of bridges using Artificial Intelligence.
- P8. Papoudos S.: Seismic isolation of structures using EPS Geofoam.
- P7. Prentzas I: Artificial Intelligence Techniques and Big Data in Structural Reliability Analysis
- P6. Gianni H.: Nonlinear Stochastic Dynamics methods for structural assessment against natural hazards.
- P5. Achmet Z.: Use of Machine Learning methods for structural health assessment against natural hazards.
- P4. Giouva I.: The framework for civil protection in Greece and Europe.
- P3. Diamantopoulos S. (Mar 2022): Dynamic response of non-structural components and building contents to seismic loading.
- P2. Bakalis K. (Feb 2018): Vulnerability assessment of steel structures of the chemical industry (in collaboration with D. Vamvatsikos).
- P1. Zacharenaki A. (Oct 2014): Optimum design of steel structures under seismic loading (in collaboration with M. Papadrakakis).

Member of the **three-member advisory board** of 25 PhD students

Member of the **examination committee** of 18 PhD students

M.Sc. Level advised (or co-advised) 48 postgraduate students:

Tzaferis Fotis (2026), Karampini M. (2026), Amal Carol (2026), Michaelidis A. (2025), Vlachos N. (2024), Alexandridis T. (2024), Smyrniotis N. (2024), Palmos I. (2024), Koutoulas K. (2023), Kalogerakou B. (2023) Spyriiotis T. (2022), Sofianos M. (2022), Anagnostou A. (2022), Repousis (2022), Gianni H (2022), Prentzas (2022), Kanakis A. (Feb 2022), Filippatos L. (Feb 2021), Pediaditi E. (Feb 2021), Giannopoulou O. (Feb 2021), Stylianakis S. (Feb 2020), Basel A (July 2019), Achmet Z. (Feb 2019), Panagi S (Feb 2019), Torou ED (Feb 2019), Lada M (Feb 2019), Kolokytha M. (July 2018), Palkanoglou M. (Feb 2018), Chamosfakidis G (Feb 2018), Karachaliou D. (Feb 2018), Mpampatzeliou D. (Feb 2018), Ghanem A (Feb 2018), Saber M. (Feb 2018), Mantelos, M (January 2017), Diamantopoulos S (January 2017), Balokas G (July 2016), Tolis A (Oct 2011), Kakkari D (Oct 2011), Papageorgopoulou A (Oct 2010), Mitseas I (Oct 2009), Tsitsias V (July 2008), Zacharenaki A (Oct 2007), Vizirgianakis V & P (Oct 2006), Rizou V (March 2005), Tzineurakis S (July 2004).

Undergraduate Level 52 undergraduate student in their Diploma Thesis:

52 Gkikas N. (2025), 51 Loukidis M. (2025), 50 Togia E. (2025), 49 Xanthakou L. (2025), 48 Malo K. (2025), 47 Siavelis K. (2025), 46 Dramil araki E. (2025), 45 Arvaniti P. (2025), Xenakis B. (2024), Michailidis A. (2023), Pantelakis (2022), Kaselouri (2022), Papapaulou E. (2022), Kalogerakou V (2022), Stamou, T (2022), Drosos N (2022), Varberis S (Feb 2021), Liatsos Ch (Sept 2020), Lekkas A (Feb 2020), Zanni A (Feb 2020), Vlachos N (Sept 2019), Kourogiorgas E (Sept 2019), Georgakis P (Feb 2019), Perloretzos M (Sept 2018), Venizelos A (Feb 2019), Repousis N. (Feb 2019), Giannakou A (Sept 2018), Markesinis A (Sept 2018), Aggelou I (July 2018), Koutoulas K (July 2018), Astitha A (Feb 2018), Kremyda E (Feb 2018), Manouselis (Feb 2017), Michail E, (Sept 2018), Soulis S (Sept 2017), Staurakantonakis Y (Sept 2017), Feliou A (Feb 2017), Kolokytha M (July 2016), Charalampous A-T (Sept 2016), Theofilatos G-E (Sept 2016), Fountas (Sept 2014), Pternea M (Feb 2014), Spachis A (Feb 2014), Strataki A (Feb 2014), Boltsi A (Univ. of Thessaly Sept 2010), Mousafeiropoulos G (Univ. of Thessaly, Sept 2011), Tolis A (Univ. of Thessaly, Oct 2009), Mitseas I (Univ. of Thessaly, Oct 2008), Ioannidi D (July 2006), Giovanis D (Oct 2005), Papaionannou I (March 2005), Rizou V (Oct 2003).

Students from international exchange programs

Carmin Chananne, Erasmus Internship, *Centrale Méditerranée, Marseille, 2026*, Farzin Kazemi, Doctoral fellow, *Gdask University of Technology, Poland, 2025*, Neda Asgarkhani, Doctoral fellow, *Gdask University of Technology, Poland, 2025*, Keryan Trevarin (Erasmus Internship, *ENSICAEN - École Nationale Supérieure d'Ingénieurs de Caen, 2024*), Paul Gros (Erasmus Internship, *École Centrale de Marseille, 2024*), Massad Abdelgadir Osman (MSc student, *University of Naples, 2024*), Akane Harada (Doctoral student, *Osaka University, 2023*), Gianluca Quinci (Doctoral student, *ERASMUS, Roma Tre, 2022*), Forgione Roberto (*ERASMUS, Università Degli Studi Del Sannio, 2021*), Anastasios Koulogiannis (*double-diplôme, ENPC France, 2021*, Emanuele Mastangelo (*University of Basilicata, July 2017*), Sebastien Maitenaz (ENPC France, July 2015: *Seismic reliability assessment of articulated systems subjected to near-fault motions*), Sami Siraj-Dine (ENPC France, July 2014: *Seismic reliability assessment of articulated systems subjected to near-fault motions (in collaboration with I. Psycharis)*).

Hellenic Open University

Seretis Stylianos (2026), Psalidas Athanasios (2026), Papadioti Alexandra (2026), Mamoukaris Konstantínos (2026), Kalli K. (2023), Tsourapas I. (2022), Anastasopoulou Th. (2022), Giakoumakis Ch. (2022), Kougioumtzis E (2021), Arifakos T (2021), Kapagiannis M (Sept 2013).

Administrative Experience (National Technical University of Athens)

- Member of the Deanery of the School of Civil Engineering, NTUA (1/9/2023 – 1/9/2025)

- Director of the Structural Engineering Department (1/9/2023 – 1/9/2025)
- Director of the Laboratory for Earthquake Engineering (2022-2025)
- Alternate member of the Board of Directors of the National Technical University of Athens Asset Management and Development Corporation (NTUA-AMDC) (ongoing)
- School representative and member of the Senate Committee for Fundamental Research (~20 members) (ongoing)
- Academic Responsible for three ERASMUS collaboration (Universite Gustave Eiffel, Roma Tre, University of Sannio) (ongoing)
- Member of the Board of the Management of the property of NTUA (ongoing)
- Member of the Committee for International Collaborations and ERASMUS project of the School of Civil Engineering (ongoing)
- Committee for the Selection of Doctoral Students (~3 members, 2 terms)
- School of Civil Engineering: member of the Committee for Computers and Networks (~5 members)
- Structural Engineering Division: member of the General Assembly (~20 members) (ongoing)
- School of Civil Engineering: member of the General Assembly (~60 members) (ongoing)
- School of Civil Engineering: member of the Committee for Equipment and Consumables (3 members, 2 terms)

Society memberships

- Delegate of Greece to the International Association for Earthquake Engineering (IAEE) (November 2019 – today)
- Hellenic Society for Earthquake Engineering (HSEE)
- Earthquake Engineering Research Institute (EERI)
- American Society of Civil Engineers (ASCE)
- Greek Association of Computational Mechanics (GRACM)
- Hellenic Society for Theoretical & Applied Mechanics (HSTAM)
- Technical Chamber of Greece (TEE).

Honors, scholarships and distinctions

- Delegate of Greece in the Young Investigator Committee (YIC) of ECCOMAS (European Community on Computational Methods in Applied Sciences), 2011-2014.

- Young researcher fellowship award for exemplary research in Computational Mechanics, Second M.I.T. Conference on Computational Fluid and Solid Mechanics, Cambridge, MA, USA, June 17, 2003.
- Scholarship of the Secretariat of the Research Committee of the National Technical University of Athens for PhD studies.
- University admittance exams (1994): Chemistry 157/160, Physics 152/160, Mathematics 156/160 (upper 5% nationally).

Participation in National Committees

- Member of the Permanent Scientific Committee on Anti-Seismic Constructions and Technical Seismology of the Earthquake Planning and Protection Organization (EPPO)
- Member of the Permanent Special Scientific Committee for the Assessment of Seismic Risk and Reduction of Seismic Hazard (Representative of NTUA)

Participation in International Committees

- European Association for Earthquake Engineering, Work Group 13: “Seismic assessment, design and resilience of industrial facilities.”
- ATC-76 (Task Order 6): Applicability of Nonlinear Multiple-Degree-of-Freedom Modelling for Design, U.S. Department of Commerce, National Institute of Standards and Technology (NIST), 2009-2010.

Research Projects

Principal Investigator (PI) and/or Team Leader:

SMART	“National project funded by the Technical Chamber of Greece. The project concerns the instrumentation and the development of an SHM system that is installed on a portfolio of 260 bridges all over the country”.
BRIDGES	
FOURIER	“InnOvative ArtiFicial IntelligencE methodologIes for monitoRing and maintaining large scale complex infrastrUctures and obtaining greener, more Resilient and smart societies”, MSCA, European Union 2024. (role: PI, project budget: 240,098.40€)

ERROR	“SEismic behavior of degraded nucleaR poweR plant cOlumns due to coR-rosion (ERROR)”, User Project under the OFFERR project of HORIZON-EURATOM-2021-NRT-01 funded by the European Commission-Euratom Programme. (role: PI of User Team, project budget: 208,952€)
BEALIVE	“Bioinspired Electroactive Aeronautical Live skin”, H2020-SMS project in the recently granted HORIZON-2023-PATHFINDER-Project No 101129952. (role: Team leader, Team budget: 150,000€)
RESISTANT	“Multiple hazard fRagility assEssment of deteriorated RC bridges uSIng STructural heAlth moNiToring”, HFRI Hellenic Foundation for Research & Innovation 2022. (role: PI, project budget: 187,355€)
SURE	“Sustainable Structured Environment with the Use of Smart Technologies”, GSRT National Research Program, part of project MIS 5130744 (role: PI, project budget: 25,000€)
ESDA	“Efficient nonlinear stochastic dynamics approaches for complex structural systems subject to natural hazards”, HFRI Hellenic Foundation for Research & Innovation 2020. (role: PI, project budget: 185,470 €)
SCIENCE	SpaCeborne SAR Interferometry as a Noninvasive tool to assess the vulnerability over Cultural hEritage sites, Greece-China: GSRT National Research Program, 2003-2005) (role: Team Leader, co-PI project budget: 340.000€, team budget 75,000€)
SERA/SPIF	Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe”, INFRAIA-01-2016-2017 Research Infrastructure for Earthquake Hazard. Transnational access for the proposal: "A risk-informed decision making analysis for nuclear (NPP) and special risk (SIP) facilities in seismic areas", hosted in EUCENTER, Pavia, Italy. (role: Team member, estimated project budget: 60.000€)
ARCHYTAS	“Archetypal telemetry and decision support system for the Protection of monumental structures”, GSRT-ESPA. (role: Team Leader, project budget: 743.000€, team budget: 30.000€)
SERA/SEREME	Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe”, INFRAIA-01-2016-2017 Research Infrastructure for Earthquake Hazard. Transnational access for the proposal: "SE.RE.M.E.: SEismic REsilience of Museum contEnts", hosted in CEA Paris (role: Team Leader PI, estimated project budget: 70.000 €)

- Thalis “Fragility assessment and seismic risk assessment for the protection of industrial structures”, GSRT-ESPA, 2007-2013. (project budget: 540.000 €, role: co-PI, fee received: 30.000€)
- ACE Hellas “Optimum Seismic Design of Reinforced Concrete buildings with elastic and inelastic response”, Software development for American Computers for Engineers (ACE Hellas) Ltd, 2006-2008 (project budget: 41.000€, role: co-PI, fee received: 1.462€)

Principal Researcher:

- ABAKAS: “Sustainable design of Structures”, GSRT-ESPA, 2013.
- NIREAS-IWRC: Principal Researcher: “Seismic assessment of Kouris earth-dam”. NEA YPODOMI / STRATI / 0308 /09 , Co-funded by the European Regional Development Fund and the Republic of Cyprus through the Cyprus Research Promotion Foundation, 2013-2015. (project budget: 2.000.000€, fee received: 27.000€)
- Cariplo Foundation: “Innovative Materials for Structural Rehabilitation in a zone of high seismic risk: Development of models for the interpretation of the behavior of structures reinforced with FRP”. In collaboration with the University of Pavia, 2007-2009. (project budget: 300.000€, fee received: 58.000€)
- PENED 2001: “Detailed modeling and analysis with finite elements of RC buildings under static and dynamic loading”, GSRT National Research Program, 2003-2005. (project budget: 88,000€, fee received: 30.000€)

Researcher with contract:

- MASTER “Mastering the computational challenges in numerical modelling and optimum design of CNT reinforced composites”, ERC-2011-ADG_20110209, 2014. (project budget: 2,500,000€, fee received: 30.000€)
- Thalis: “Solving complex analysis problems for the towers of new generation wind turbines”, GSRT-ESPA, April 2012. (project budget: 540.000€, fee received: 1.000€)
- DARE: “Soil-foundation structure systems beyond conventional seismic “failure” thresholds: application to new or existing structures and monuments”, 1/12/2008-31/10/2013. (project budget: 2.400.000€, fee received: 2.000€)
- ADERS “Analysis and Design of Earthquake Resistant Structures”, FP7-People-2010-IRSES, 2011-2012. (project budget: 1.400.000€, fee received: 8.400€)

Reviewer of research projects

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|--------|---|
| HFRI | “Hellenic Foundation for Research & Innovation”, November 2021 & April 2024. |
| EPANET | “Research and Innovation”. Greek Ministry of Education and Religious Affairs, Sept. 2019 |
| GSRT | “Set up and support innovative spin-off and spin-out companies”. GSRT-67KAIN2010Δ, Sept. 2013 |
| IKY | National Scholarship Foundation for PhD studies (since 2018). |
| GSRT | Reviewer for 5 national research projects since 2016. |

Editor of International Journals

- Heylion Engineering (Elsevier)

Editorial Board of International Journals

- Engineering Structures (Elsevier)
- Resilient Cities and Structures (Elsevier)
- Associate Editor, Frontiers in Built Environment: Computational Methods in Structural Engineering
- GeoHazards (MDPI)
- Journal of Structural Integrity and Maintenance (Taylor and Francis)
- International Journal of Earthquake and Impact Engineering (Interscience publishers)
- Frontiers in Built Environment: Bridge Engineering
- International Journal of Earthquake Engineering and Hazard Mitigation (IREHM)

Referee and Review Activities

Peer reviewed papers of more than **250** papers for more than **50** International Journals. Indicative journal titles are provided below (the publisher is shown in parenthesis):

Elsevier: Computer Methods in Applied Mechanics and Engineering, Computer and Structures, Structural Safety, Journal of Thin Wall Structures, Engineering Structures, Probabilistic Engineering Mechanics, Journal of Fluids and Structures, International Journal of Mechanical Sciences, Advances in Engineering software, Advances in Structural Engineering, Journal of Cultural Heritage, Soft Computing, International Journal of Disaster Risk Reduction, Mechanical Systems and Signal Processing.

Wiley: Earthquake Engineering and Structural Dynamics (EESD), International Journal of Sustainable Engineering, Asian Journal of Control

Springer: Bulletin of Earthquake Engineering, Computational Mechanics, Structural & Multidisciplinary Optimization, Earthquake Engineering and Engineering Vibration, Materials and Structures Water Resources Management, Soft Computing, Natural Hazards

Taylor & Francis: Journal of Earthquake Engineering, Engineering Optimization, Structure and Infrastructure Engineering , Ships and Offshore Structures

ASCE: Journal of Structural Engineering, Engineering Mechanics, Journal of Pipeline Systems, Journal of Computing in Civil Engineering

EERI: Earthquake Spectra

ICE: Structures, Structures & Buildings

ASME: Journal of Pressure Vessel Technology

TechnoPress: Earthquakes and Structures, Steel and Composite Structures

Hindawi: Modelling and Simulation in Engineering

Other publishers: International Journal of Computational Methods (World Scientific Publishing), Scientia Iranica, Journal of Civil Engineering and Construction Practice, The Open Construction and Building Technology Journal, International Journal of Physical Sciences, Korean Society of Civil Engineering, Journal of Civil Engineering, British Journal of Applied Science and Technology (Sciencedomain), Frontiers in Built Environment (Frontiers), NED University Journal of Research, Journal of Civil Engineering IABSE Structural Engineering International.

Short Courses & Invited lectures

2 April 2025	“The Arkalochori Earthquake on 29/9/2021”, <i>Technical Chamber of Greece</i>
18-23 Nov. 2024	“Passive isolation application to buildings and bridges” in “Semaine Amortisseurs, Vibrations des structures du génie civil”, <i>Ecole Nationale des Pontes et Chaussées</i> , Paris, France.
24 Oct. 2024	“Seismic behavior and reliability assessment of cultural heritage structures”, Jiaotong University, Beijing, China.
20 Oct. 2024	“The 3rd International Symposium on Cultural Heritage Seismic-Protection Technology (3rd ISCHSPT)”, in Chengdu, Sichuan Province, China.
22 Nov. 2023	“Passive isolation application to buildings and bridges” in “Semaine Amortisseurs, Vibrations des structures du génie civil”, <i>Ecole Nationale des Pontes et Chaussées</i> , Paris, France.

- 23-26 May 2023 “Reliability and health assessment of energy infrastructure”, *22nd European Regional Seminar on Induced Seismicity Effects on the Built Environment, Energy Production, Transportation and Storage*, Zernike Campus, Groningen, Netherlands
- 1 Dec 2022 “Reliability and health assessment of structures: past work and future perspectives”, *Ecole Centrale Nantes*, Nantes, France.
- 14 – 18 Nov 2022 “Passive isolation application to buildings and bridges” in “Semaine Amortisseurs, Vibrations des structures du génie civil”, *Ecole Nationale des Pontes et Chaussées*, Paris, France.
- 18 Oct 2022 “Webinaire ISAS: Nos grands instruments au service du Patrimoine”, Commissariat Atomique Energie C.E.A., France.
- 17 Feb - 10 Mar 2022 “Computational Nonlinear Response Assessment of Structures”, Doctoral Course, 6 sessions of 3 hours, *Université Gustave Eiffel*, Marne-la-Vallée, Paris, France.
- 15 – 19 Nov 2021 “Passive isolation application to buildings and bridges” in “Semaine Amortisseurs, Vibrations des structures du génie civil”, *Ecole Nationale des Pontes et Chaussées*, Paris, France.
- 31 March 2021 “Experimental seismic assessment and protection of museum artefacts”, *University of Cyprus*, Nicosia, Cyprus.
- 19 – 20 Nov 2020 “Passive isolation application to buildings and bridges” in “Semaine Amortisseurs, Vibrations des structures du génie civil”, *Ecole Nationale des Pontes et Chaussées*, Paris, France.
- 1 Sept – 10 Oct 2020 6-week doctoral course on “Reliability and risk assessment of structures and systems”, *Université Paris-Est & Université Gustave Eiffel*, Paris, France.
- 17 December 2019 “Seismic reliability and resilience assessment of pipe networks”, Workshop: “Resilience of pipeline networks to seismic hazards”, *University of Bristol*, Bristol, UK.
- 23 July 2019 “Properties and applications of Shape Memory Alloys”, *CIRIMAT - Centre Inter-universitaire de Recherche et d'Ingénierie des Matériaux*, Toulouse, France.
- 29 May 2018 “Seismic risk and resilience assessment of critical infrastructure”, *Ecole Nationale des Pontes et Chaussées*, Paris, France.
- 18-25 Sept 2017 1-week seminar doctoral course on “Computational methods for the seismic assessment of structures”, *Roma Tre University*, Rome, Italy.

- 13-17 March 2017 “Performance-based risk assessment of critical structures and systems”, *Complex Decision Making under Emergency Conditions, Organized by Politecnico di Milano, Politecnico di Torino*, Loano, Italy.
- 1 June 2016 “Nonlinear stochastic analysis of structures with spatially variable system properties”, *DeGrieLab Workshop: Structural health monitoring for resilient Infrastructure*, Chalkidi, Greece.
- 22 September 2015 “Seismic reliability assessment of structures, monuments and infrastructure”, *University College London*, London, UK.
- 13 March 2013 “Reliability Assessment of urban water distribution networks under seismic loads”, *University of Cyprus*, Nicosia, Cyprus.
- 20 November 2011 “Static pushover versus nonlinear dynamic analysis: qualitative/quantitative comparison and seismic risk assessment”, *Universidad Autonoma Metropolitana*, Azcapotzalco, Mexico City, Mexico.
- 14 November 2008 “Performance-based design and reliability assessment of seismically excited structures”, *University of Cyprus*, Nicosia, Cyprus.

Lectures to practicing engineers

- 11 Sept 2023 “Modern Technologies for the Design and Monitoring of the Structural Integrity of Constructions”, *Egaleo is Smart*, Egaleo, Athens, Greece.
- 6 Sept 2023 “Lessons from the Earthquake in Arkalochori and Contemporary Developments in the Seismic Design of Structures”. *Technical Chamber of Greece (Eastern Crete branch)*, Heraklion Crete.
- 1 Dec 2012 Colloquium for new KANEPE design code for the seismic upgrade and assessment of RC structures, Kos Island November 30th, 2012 - Kalymnos Island, Greece.
- July 2012 Lecture Series: “Application of the new KANEPE design code for the seismic upgrade and assessment of RC structures, Engineering Intelligence, Athens, Greece.
- May 2009 Lecture Series: “Application of novel technologies for the analysis and design of earthquake-resistant structures. Technical Chamber of Greece, Athens, Greece.
- 2008 Lecture Title: “Contemporary computational tools for the analysis and design of buildings, National Center for Public Administration and Local Government, Thessaloniki, Greece.

Chairman of International Conferences

- COMPDYN 2027, “11th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, June 2027, Heraklion, Greece.
- COMPDYN 2025, “10th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, June 2025, Rhodes, Greece.
- COMPDYN 2023, “9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, 12-14 June 2023, Athens, Greece.
- COMPDYN 2021, “8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, 21-23 June 2021, streamed from Athens, Greece.
- EURODYN 2020, “11th International Conference on Structural Dynamics”, 23-25 November 2020, Athens, Greece.
- COMPDYN 2019, “7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, 24-26 June 2019, Hersonissos Crete, Greece.
- COMPDYN 2017, “6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, 15-17 May, Rhodes, Greece.
- COMPDYN 2011, “3rd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, 26-28 May, Corfu, Greece.
- COMPDYN 2009, “2nd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, 22-24 June 2009, Island of Rhodes, Greece.

Organising/Steering Committee of International Conferences

- CST 2026 “The Sixteenth International Conference on Computational Structures Technology”, 27-29 August 2026, Budapest, Hungary.
- “International Conference on Engineering Structures (ICES2026)”, Australia, 14 December 2026.
- “5th National Conference for Earthquake Engineering and Engineering Seismology”, 20–22 October 2022, Athens, Greece.
- “4th National Conference for Earthquake Engineering and Engineering Seismology”, 5-7 September 2019, Athens, Greece.
- “16th European Conference on Earthquake Engineering”, 16ECEE, 18-21 June 2018, Thessaloniki, Greece.
- “European Congress on Computational Methods in Applied Sciences and Engineering”, EC-COMAS Congress 2016, 5-10 June, Crete Island, Greece.
- “5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, COMPDYN 2015, 25-27 May, Crete Island, Greece.

- “4th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, COMPDYN 2013, 12-14 June, Kos Island, Greece.
- “7th GRACM International Congress on Computational Mechanics”, Greek Association of Computational Mechanics, 30 June - 2 July 2011, Athens, Greece.

Editorial and/or Scientific Board of International Conferences

- EVACES 2027 “Experimental Vibration Analysis for Civil Engineering Structures”, Perugia, Italy, 7-10 September 2027.
- ICONREM 2026 “Resilience Multi-risk Assessment and Monitoring”, Florence, Italy 16–19, 2026.
- EUROGEN 2025 “Evolutionary and Deterministic Methods for Design, Optimization and Control”, Lahti, Finland on September 16–18, 2025
- ICOVP-2025 & WMVC-2025 “16th International Conference on Vibration Problems (ICOVP-2025) & 11th International Conference on Wave Mechanics and Vibrations (WMVC-2025)”, Lisbon, Portugal, September 2–5, 2025.
- EURODYN 2026, “13th International Conference on Structural Dynamics”, 27th September - 1st October 2026, Hanover, Germany.
- PROHITECH 2025 “5th International Conference Protection of Historical Constructions”, Naples 26 –28 March, 2025.
- EVACES 2025 “Experimental Vibration Analysis for Civil Engineering Structures”, Porto, Portugal, 2–4 July 2025.
- SeismiCOM 2024 “5th International Conference on Seismic Design and Analysis of Structures and Foundations”, 20–21 June 2024 (online).
- ICONREM 2024, “3rd International Conference on Resilience, Earthquake Engineering and Structural Health Monitoring”, 24–27 June 2024.
- ICOVP 2023 “16th International Conference on Vibration Problems”, Doha, Qatar, 5-9 February 2023.
- ICOVP 2021 “15th International Conference on Vibration Problems”, Doha, Qatar, 14-17 November 2021.
- EUROGEN 2021 “Evolutionary and Deterministic Methods for Design, Optimization and Control”, Athens, Greece, 17-19 May 2021.
- “The Sixteenth International Conference on Civil, Structural & Environmental Engineering Computing”, Riva del Garda, near Lake Garda, Italy, 16-19 September 2019.
- ICOVP 2019 “14th International Conference on Vibration Problems”, Crete, Greece, 1-4 September 2019.

- ECT2018 2018 “The Tenth International Conference on Engineering Computational Technology”, Sitges, Barcelona, Spain, 4-6 September 2018.
- “16th European Conference on Earthquake Engineering”, 16ECEE, 18-21 June 2018, Thessaloniki, Greece.
- “6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering”, COMPDYN 2017, 15-17 June, Rhodes, Greece.
- “The Fourth International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering”, CIVIL-SOFT-COMP 2015, Prague, Czech Republic, 1-4 September 2015.
- “2nd ECCOMAS Young Investigators Conference (YIC)”, Bordeaux, France, 2-6 September 2013.
- “The Third International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering”, Cagliari, Sardinia, Italy, 3-6 September 2013.
- “The Second International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering”, Chania, Crete, 6-9 September 2011.

Organiser of Special Sessions (Mini Symposia) in International Conferences

- Gianluca Quinci, Cristoforo Demartino, **Michalis Fragiadakis**, “Artificial Intelligence techniques in Seismic Engineering applied to Critical Infrastructures”, *18th European Conference on Earthquake Engineering*, 14-18 September 2026, Berlin, Germany.
- “Seismic retrofit of existing buildings”, **M. Fragiadakis**, A. Sextos, H. Varum, *WCEE2024, 18th World Conference on Earthquake Engineering*, 30 June -5 July 2024, Milan, Italy.
- “Machine learning and AI methods for risk analysis of major hazard process facilities”, F. Paolacci, O. Bursi, **M. Fragiadakis**, *WCEE2024, 18th World Conference on Earthquake Engineering*, 30 June -5 July 2024, Milan, Italy.
- “Digital Bridge Monitoring: Integration of NDTs and Visualisation Tools for Structural and durability Assessment”, M. Rasol, F. Schmidt, I. Brilakis, **M. Fragiadakis**, in *2nd Conference of the European Association on Quality Control of Bridges and Structures EUROSTRUCT2023*, 27-29 September Vienna, Austria.
- “Optimization methods and applications in Structural Engineering”, Lavan, O., **Frangiadakis, M.**, “15th International Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control”, 1-3 June 2023, Chania, Crete, Greece.
- “Mini-symposium on Artificial Intelligence techniques in Seismic Engineering”, Paolacci, F., Quinci, G., **Frangiadakis, M.**, *9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, COMPDYN 2023, Athens, Greece.

- “Recent advances in ground motion selection and scaling techniques”, Shaghayegh Karimzadeh, Georgioudakis, M. **Fragiadakis, M.**, *9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, COMPDYN 2023, Athens, Greece.
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- “Seismic protection of non-structural components: recent developments and future challenges”, DiSarno, L., **Fragiadakis, M.**, in *8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, COMPDYN 2021, 27-30 June, Athens, Greece.
- “Experimental Earthquake Engineering”, Mouzakis, H. **Fragiadakis, M.** in *EURODYN 2020: 11th International Conference on Structural Dynamics*, 23-25 November 2020, Athens, Greece.
- “Seismic Resilience of Museum Contents”, **Fragiadakis, M.**, DiSarno, L., in *7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, COMPDYN 2019, 24-26 June, Crete, Greece.
- “Special Session: Dynamics and Seismic Response of Rocking and Self-Centering Structures”, Dimitrakopoulos, E., Vassiliou, M., DeJong, M., **Fragiadakis, M.** in the *16th European Conference on Earthquake Engineering*, 16ECEE, 18-21 June 2018, Thessaloniki, Greece.
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- “Seismic Performance Evaluation under Uncertainty” organized by D. Vamvatsikos and **M. Fragiadakis**, in the *International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, COMPDYN-2011, Corfu, Greece, May 26-28, 2011.
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- O1. **Fragiadakis, M.** (2000). “Material non-linear analysis of structures using the BEC natural beam element’, Diploma Dissertation, advisor: Prof. M. Papadrakakis, *National Technical University of Athens, Greece*. [download](#)

Skills and Qualifications

- Programming skills: Fortran, Matlab, Python.
- Structural analysis packages (Abaqus, SAP 2000, OpenSEES, etc)
- Microsoft Office, LaTeX.