

Curriculum Vitae

Personal Information

Last Name	:	Antoniou	
First Name	:	Fani	
Position	:	Assistant Professor	
Academic Field	:	Infrastructure Project Management	
Work Address	:	International Hellenic University, School of Engineering, Department of Environmental Engineering, P.O. Box 141, 574 00, Sindos, Thessaloniki, Greece	
Research Interests	:	Public works contract procurement, contract management and claims management, multi-criteria decision-making, quality assurance and control, project planning, construction cost estimation, project procurement systems, construction supply chain management, safety and risk management in construction	
Contact Details:	:	tel.:	e-mail: fanton@ihu.gr

Education

1991-1994	Bachelor of Engineering and ACGI in Civil Engineering, Department of Civil and Environmental Engineering, Imperial College, London, United Kingdom.
1994-1995	Master of Science in Concrete Structures and Diploma of Imperial College, Department of Civil and Environmental Engineering, Concrete Structures Section, Imperial College, London, United Kingdom.
2015	Doctor of Philosophy (PhD), Civil Engineering Department/School of Engineering, Aristotle University of Thessaloniki, Greece.

Professional Experience

1996	Civil Engineering practice license issued by the Technical Chamber of Greece
1998-2006	Freelance civil engineer – building design and construction
1997-1998	Planning Engineer, O.T.Y.E / G. Sortikos - ARXITEX S.A.
1997-2019	EGNATIA ODOS S.A. <ul style="list-style-type: none">• 1 year - Project Services Department -Planning Engineer• 4 years - West Region Project Management Department – Assistant Project Manager• 2 years - Metsovo Region Project Management Department – Project Engineer• 2 years - Construction Supervision Department – Deputy Director• 10 years - East Region Projects Management Department – Project Manager

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- 2,5 years – International Projects Department - Director
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Teaching Experience

A. Undergraduate

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| 2019 - today | Department of Environmental Engineering, International Hellenic University, <ul style="list-style-type: none">• Project Management 1 (3rd Semester)• Environmental and Public Works Legislation (3rd Semester)• Analytical Decision Making Methods (4th Semester)• Project Management 2 (6th Semester) |
| 2016 - 2019 | Department of Civil Engineering, Alexander Technological Educational Institute of Thessaloniki <ul style="list-style-type: none">• Construction Management I• Public Works Legislation• Civil Engineering Project Management• Construction Management II |
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B. Supervision of Undergraduate Theses

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| 2016 - today | <ul style="list-style-type: none">• Supervision of 9 Undergraduate Theses |
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C. Postgraduate

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| 2019-today | “Design and Construction of Civil Engineering Structures” MSc Course, Department of Environmental Engineering, International Hellenic University, Greece <ul style="list-style-type: none">• Project Management• Concrete Structures• Inspection, Repair and Strengthening of Structures• Underground Works |
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D. Supervision of Post Graduate Theses

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| 2016 - today | Hellenic Open University / School of Science and Technology/ Hellenic Open University / Greece
Supervision of 18 Postgraduate Theses for the MSc “Engineering Project Management” |
| 2019 - today | Dep. of Environmental Engineering, International Hellenic University
Supervision of 9 Postgraduate Theses the MSc “Design and Construction of Civil Engineering Structures” |
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E. Supervision of Doctoral Theses

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| 2021- | Dep. of Environmental Engineering, International Hellenic University |
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Supervision of doctoral candidate Marianna Kalogeraki. Research topic: "Management of Sustainable Structures and Environmental projects"

F. Member of Examination Committees for Doctoral Dissertations

2020 Member of the Examination Committee for the award of a doctorate degree by the Department of Civil Engineering of the Aristotle University of Thessaloniki to Mr. George Hadjipoulidis (25/6/2020). Thesis topic "Public & Private Partnerships and their Application in the Health Sector - The Social Dimension"

Departmental Administrative Work

2019- Departmental Erasmus Coordinator

2021- Departmental Moodle platform administrator

2019- Coordinator for the "Project Management" course for the MSc "Design and Construction of Civil Engineering Structures", IHU

2019- Member Coordination Committee for the MSc "Design and Construction of Civil Engineering Structures"

2021- Co-author/ editor of the Environmental Engineering Undergraduate Studies Guide.

Research Programs

Research Team Member

2012 Research Committee of the Alexander Technological Institute of Thessaloniki (ATEITH)
"Assessment, Development and Application of an Innovative Contract Type Selection Model for the Construction of Public Roads"

2014-2015 National Strategic Reference Framework (NSRF) 2007 -2013 - Operational Programme Education and Lifelong Learning – ARISTEIA II
"Expansion of European Structural Design Guidelines to include the use of Ultra High Performance Materials in Earthquake Prone Areas"

2012-2015 National Strategic Reference Framework (NSRF) 2007 -2013, Operational Programme Education and Lifelong Learning, ARCHIMEDES III
"Assessment, Development and Application of an Innovative Project Procurement System Selection Model for the Management of Major Transportation Projects."

Publications

Publications in Scientific Journals (peer reviewed)

1. 2012 **Antoniou F.**, Aretoulis G., Konstantinidis D and Kalfakakou G. (2012). Selection criteria used for the choice of contract type for major highway construction projects, *Procedia - Social and Behavioral Sciences (Transport Research Arena - Europe 2012)*, Elsevier, 48:3508-3517. doi:10.1016/j.sbspro.2012.06.1314.
 2. 2013 **Antoniou F.**, Aretoulis G., Konstantinidis D and Kalfakakou G. (2013). Complexity in the evaluation of contract types employed for the construction of highway project, *Procedia - Social and Behavioral Sciences (26th IPMA World Congress 2012)*, Elsevier, 74:448-458. doi: 10.1016/j.sbspro.2013.03.048.
 3. 2013 **Antoniou F.**, Aretoulis G., Konstantinidis D. and Kalfakakou G. (2013). Engineers' perception and assessment of contract types for highway construction projects. *International Journal of Applied Behavioral Economics*, 2(4):1-24, doi: 10.4018/ijabe.2013100101
 4. 2013 **Antoniou F.**, Aretoulis G., Konstantinidis D. and Kalfakakou G. (2013). An empirical study of researchers' and practitioners' views on compensating major highway project contractors. *International Journal of Management and Decision Making*, 12(4):351-375, doi: 10.1504/IJMDM.2013.056883.
 5. 2015 **Antoniou, F.**, Aretoulis G., Konstantinidis D. and Papathanasiou J. (2015). Choosing the most appropriate contract type for compensating major highway project contractors. *Journal of Computational Optimization in Economics and Finance*, 6(2):1-19.
 6. 2016 **Antoniou F.**, Konstantinidis D. and Aretoulis G. (2016). Analytical formulation for early cost estimation and material consumption of road overpass bridges. *Research Journal of Applied Sciences, Engineering and Technology*, 12(7): 716-725. DOI: 10.19026/rjaset.12.2747.
 7. 2016 **Antoniou F.**, Konstantinidis D. and Aretoulis G. (2016). Application of the multi attribute utility theory for the selection of project procurement system for Greek highway projects. *International Journal of Management and Decision Making*, 15(2), 83-112, DOI: 10.1504/IJMDM.2016.077761.
 8. 2017 **Antoniou F.**, Konstantinidis D., Aretoulis G. and Xenides, I. (2017). Preliminary construction cost estimates for motorway underpass bridges. *International Journal of Construction Management*, 18(4):321-330, doi: 10.1080/15623599.2017.1358076.
 9. 2017 **Antoniou F.**, Aretoulis G. N., Konstantinidis D. K. and Kalfakakou G. P. (2017). Engineers' Perceptions of Contract Types' Performances for Highway Construction Projects. In R. Ianole (Ed.), *Applied Behavioral Economics Research and Trends* (pp. 152-182). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-1826-6.ch009.
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10. 2018 **Antoniou, F.** and Aretoulis, G. N. (2018). A multi criteria decision making support system for choice of method of compensation for highway construction contractors in Greece. *International Journal of Construction Management*, doi:10.1080/15623599.2018.1452103.
11. 2018 **Antoniou F.** and Aretoulis G. (2018). Comparative analysis of multi criteria decision making methods in choosing highway construction contract type. *International Journal of Management and Decision Making*, 17(1):1-28.
12. 2019 Marinelli, M. and **Antoniou, F.** (2020). Improving public works' value for money: a new procurement strategy, *International Journal of Managing Projects in Business*, Vol. 13 No. 1, pp. 85-102. <https://doi.org/10.1108/IJMPB-04-2018-0084>
13. 2019 Aretoulis G., Papathanasiou J. and **Antoniou F.** (2019), "PROMETHEE based ranking of project managers' based on the five personality traits", *Kybernetes*, DOI: <https://doi.org/10.1108/K-10-2018-0551>
14. 2020 **Antoniou, F.** and Marinelli, M. (2020). Proposal for the promotion of standardization of precast beams in highway concrete bridges, *Frontiers in Built Environment*, 6:119, DOI:10.3389/fbuil.2020.00119
15. 2021 **Antoniou F.** and Merkouri M. (2021). Accident factors per construction type and stage: A synthesis of scientific research and professional experience, *International Journal of Injury Control and Safety Promotion*, DOI: 10.1080/17457300.2021.1930061
16. 2021 **Antoniou, F.** (2021). Delay risk assessment models for road projects. *Systems*, 9, 70. <https://doi.org/10.3390/systems9030070>
17. 2021 Kalogeraki M. and **Antoniou F.** (2021) Improving risk assessment for transporting dangerous goods through European road tunnels: A Delphi study. *Systems*, 2021, 9, 80. <https://doi.org/10.3390/systems9040080>
18. 2023 Antoniou F, Agrafioti NF. Meta-Analysis of Studies on Accident Contributing Factors in the Greek Construction Industry. *Sustainability*. 2023; 15(3):2357. <https://doi.org/10.3390/su15032357>

Publications in Scientific Conference Proceedings (peer reviewed)

International

1. 2004 Lambropoulos S., Konstantinidis G., Georganopoulos C. Konstantinidis D. and **Antoniou F.** (2004). Multispan balanced cantilever bridges: Egnatia Motorway. *International Association for Bridge and Structural Engineering Symposium, Metropolitan Habitats and Infrastructure, Shanghai, 22-24, September, IABSE Report Vol. 88, p.p. 176-177* doi:10.2749/222137804796291593
2. 2004 Lambropoulos S., Konstantinidis D. and **Antoniou F.** (2004). Management of designs in a major motorway project. *CD ROM Proceedings 3rd Scientific*

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- Conference on Project Management, "Clustering in Construction Project Management", 24-25 September, Thessaloniki, Greece, pp. 355-363.
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3. 2005 Liolios A., Konstantinidis D., Konstantinidis G. and **Antoniou, F.** (2005). Design of twin leaf balanced cantilever bridges under seismic conditions. IABSE Symposium Structures and Extreme Events, Lisbon, Portugal, September 14-17, paper no. 303. IABSE Report Vol. 90, doi:10.2749/222137805796270171.
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4. 2006 Liolios A., Kotoulas D., **Antoniou F.** and Konstantinidis D. (2006). Egnatia Motorway bridge management systems for design, construction and maintenance. CD-ROM Proceedings of the third international conference on bridge maintenance, safety management, life-cycle performance and cost, Porto, Portugal 16-19 July, (ISBN 978-0-415-40315-3).
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5. 2009 **Antoniou F.** and Kalfakakou G. (2009). Selection criteria used for the choice of procurement system for major highway construction projects. Proceedings of the Fifth International Conference on Construction in the 21st Century (CITC-V) "Collaboration and Integration in Engineering, Management and Technology" Istanbul, Turkey, May 20-22. paper no 59, 473-480.
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6. 2010 Konstantinidis D. and **Antoniou F.** (2010). Egnatia motorway concrete bridges. *17th Symposium on progress of research on Quebec bridges*, CD ROM Proceedings 6.1 – 6.14, Quebec, Canada, 11-12 May
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7. 2012 **Antoniou F.**, Aretoulis G., Konstantinidis D. and Kalfakakou G. (2012). Selection criteria used for the choice of contract type for major highway construction projects, *Procedia - Social and Behavioral Sciences (Transport Research Arena - Europe 2012)*, Elsevier, 48:3508-3517. doi:10.1016/j.sbspro.2012.06.1314.
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8. 2013 **Antoniou F.**, Aretoulis G., Konstantinidis D and Kalfakakou G. (2013). Complexity in the evaluation of contract types employed for the construction of highway project, *Procedia - Social and Behavioral Sciences (26th IPMA World Congress 2012)*, Elsevier, 74:448-458. doi: 10.1016/j.sbspro.2013.03.048.
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9. 2015 **Antoniou F.**, Konstantinidis D. and Aretoulis G. N. (2015). Cost analysis and material consumption of highway bridge underpasses. Proceedings of the Eighth International Conference on Construction in the 21st Century (CITC-8) "Changing the Field: Recent Developments for the Future of Engineering and Construction" Thessaloniki, Greece, May 27-30, pp. 530-537.
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10. 2015 **Antoniou F.**, Konstantinidis D. and Aretoulis G. N. (2015) Derivation of utility values of project procurement systems against selection criteria for major highway construction projects. Proceedings of the Eighth International Conference on Construction in the 21st Century (CITC-8) "Changing the Field: Recent Developments for the Future of Engineering and Construction" Thessaloniki, Greece, May 27-30, pp. 262-269.
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11. 2016 Aretoulis G., Parisi K., Georgiou A., Papathanasiou J., **Antoniou F.** and Trantafyllidis C. (2016). Selecting project procurement system: A fuzzy multicriteria decision analysis based on project managers' personality facets. 5th International
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Symposium and 27th National Conference in Operational Research, Athens, June 9-11, ππ. 188-192.

12. 2022 **Antoniou F.**, Dermetzidou F., Mentzelou P. and Konstantinidis D. (2022). Energy upgrading of buildings in Greece with eco-materials: An investigation of public awareness. IOP Conference Series: Earth and Environmental Science, Volume 1123, 3rd International Conference on Environmental Design, 22-23 October 2022, Athens, Greece (Hybrid) IOP Conf. Ser.: Earth Environ. Sci. 1123 012033, DOI 10.1088/1755-1315/1123/1/012033
 13. 2022 Kalogeraki M. and **Antoniou F.** (2022). Current research trends into the effect of climate change on civil engineering infrastructures: A bibliometric review. IOP Conference Series: Earth and Environmental Science, Volume 1123, 3rd International Conference on Environmental Design, 22-23 October 2022, Athens, Greece (Hybrid) IOP Conf. Ser.: Earth Environ. Sci. 1123 012037, DOI 10.1088/1755-1315/1123/1/012037
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National

1. 2005 Lambropoulos S., **Antoniou F.**, Maravas A. and Konstantinidis D. (2005). Cost and time management of major construction projects on Egnatia Motorway. CD - ROM Proceedings of the 2nd Panhellenic Conference on Road Construction, May 18-20, paper no 54. (Greek)
 2. 2006 **Antoniou F.** and Papakonstantinou K. (2006). Supervision of Construction for Egnatia Odos S.A. Εγνατία Οδός Α.Ε.: Workshop on Innovative Actions, Research and Modern Management Systems, Thessaloniki, 15 February, no. 4, pp 23-30. (Greek)
 3. 2016 **Antoniou F.**, Konstantinidis D., and Aretoulis G. (2016). Estimation of costs and required quantities of materials for the construction of over passes. 17th Panhellenic Concrete Conference, Thessaloniki, 10-12 November, no. 13. (Greek)
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Research Program Reports

1. 2013 Konstantinidis D., Aretoulis G. and **Antoniou F.** (2013). Evaluation, Development and Implementation of an Innovative Contract Type Selection Model for the Construction of a Public Road Project. Final Programme Report 124, Alexander T.E.I. of Thessaloniki Research Committee (Greek)
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Other Publications

1. 2010 Konstantinidis D. and **Antoniou, F.** (2010). Material Quantities for Balanced Cantilever Bridges. Aseismic Design and Construction in Egnatia Odos, Editor A.
-

J. Kappos, pp. 43-54 (ISBN 978-960-99529-0-3) Thessaloniki, Greece, ZITI Publications. Copyright: Hellenic Society for Earthquake Engineering.

2. 2015 Doctoral thesis, Aristotle University of Thessaloniki (2015) on the topic: "Decision support system for the selection of construction contract type in the context of road project management".
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Acknowledgement of Scientific Expertise

A. Citations/ h-index

Citations= 86 / h-index= 6 (Scopus), Citations 231 / h-index= 10 (Google Scholar)

B. Guest Editor

- Buildings/ MDPI
Special Issue "Advanced Technologies for Successful and Sustainable Construction and Maintenance Projects"
https://www.mdpi.com/journal/buildings/special_issues/M002XX5SE9
-

C. Reviewer in Scientific Journals

- Reviewer of International Scientific Journals:
 - Construction Management and Economics (Taylor and Francis since 2016)
 - International Journal of Managing Projects in Business (Emerald Publishing since 2018)
 - Kybernetes (Emerald Publishing since 2019)
 - Ain Shams Engineering Journal (Elsevier since 2020)
 - Systems (MDPI since 2021)
 - Applied Sciences (MDPI since 2021)
 - Buildings (MDPI since 2021)
 - Land (MDPI since 2021)
 - Axioms (MDPI since 2023)
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D. Member of other Scientific Committees or Professional Associations

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| 1995- | Member of the Civil Engineering Society Greece |
| 1995- | Member of the Technical Chamber of Greece |
| 2002- | European Federation of National Engineering Associations (FEANI) |
| 2008- | Member of IPMA Greece |
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Other Activities - Interests

A. Participation in International Scientific and Advisory Committees

2012-2015 *National representative in the Technical Committee 1.1 "Performance of Transport Administrations" of the World Road Organization (PIARC), cycle 2012-2015.*

2016-2019 *National representative in the Technical Committee A.1 "Performance of Transport Administrations" of the World Road Organization (PIARC), cycle 2016-2019.*

B. Presenter at Scientific Conferences and Lectures at Seminars

2009 Fifth International Conference on Construction in the 21st Century (CITC-V) "Collaboration and Integration in Engineering, Management and Technology" Istanbul, Turkey (2009). Paper: Selection Criteria used for the Choice of Procurement System for Major Highway Construction Projects

2010 PM-05: Advancing Project Management in the 21st Century "Concepts, Tools and Techniques for Managing Successful Projects" Heraklion, Crete, Greece (2010). Session Chair for the Tutorial "Grasping the Opportunities of the PM Decade".

2012 Transport Research Arena - Europe 2012, Athens Greece (2012) (Poster presentation). Topic: Selection criteria used for the choice of contract type for major highway construction projects.

2015 Eighth International Conference on Construction in the 21st Century (CITC-8) "Changing the Field: Recent Developments for the Future of Engineering and Construction" Thessaloniki, Greece (2015). Paper: Cost Analysis and Material Consumption of Highway Bridge Underpasses.

2015 Eighth International Conference on Construction in the 21st Century (CITC-8) "Changing the Field: Recent Developments for the Future of Engineering and Construction" Thessaloniki, Greece (2015). Θέμα: Derivation of utility values of project procurement systems against selection criteria for major highway construction projects.

2017 Seminar "Design and Implementation of Major Technical Projects" of the School of Civil Engineering of the National Technical University Athens

- Presentation of the lecture "General Introduction: Egnatia Odos S.A. Design and Construction Management"
 - Presentation of the lecture "External Project Management Consultants (PM/CM).
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C. Participant in Conferences and Seminars

1998 Ministry of Public Works – Egnatia Odos S.A. Scientific Workshop on "Problems of Road Bridge Design". 26-27 February 1998.

1998 E.D.I.P – Management and IT Company. Training programme "VBASIC". 1998

1998 Egnatia Odos A.E. training programme "Primavera Project Planning", Thessaloniki, June 1998..

1998 Scientific Meeting on "Public Works Contracts and Community Law", Centre for International and European Financial Law, 1998, Thessaloniki (participant)..

1999	Egnatia Odos A.E. 200 hr training programme “Current Management Methods for Professional Engineering Staff”, Thessaloniki September-December 1999
2000	Egnatia Odos A.E. training programme for engineering staff on “Management and Supervision of Design and Construction Contracts” March to May 2000
2000	Egnatia Odos A.E. 120 hr training programme “Diagnostic Methods and Communication in Modern Management”, Thessaloniki June to October 2000
2000-2001	Egnatia Odos A.E. and Aristotle University of Thessaloniki. 6 month post-graduate programme on “Construction Management”. September 2000 – March 2001.
2000	Egnatia Odos A.E. training programme “Quality Assurance/Quality Control” , 2000
2001	Seminar on “Minimum Health & Safety Standards for Temporary or Mobile Construction Sites” Haliburton Brown and Root, 18 May 2001.
2001	2nd PanHellenic Engineering Seismology and Earthquake Engineering Conference, 2001, Technical Chamber of Greece, Thessaloniki 28-30 November 2001.
2001	Scientific Conference “The tunnels on Egnatia Motorway”, 2002, Egnatia Odos S.A. and Hellenic Committee of Tunnels & Underground Works. 7 – 8 December 2001, Ioannina, Greece.
2002	Seminar “Health and Safety in Engineering”, 2002, Hellenic Institute for Health and Safety at Work.
2002	28 hour course on “Human Resource Management”. University of Macedonia, 2002. Thessaloniki 16 October – 6 November 2002.
2002	3rd International Conference Asphalt Mixtures and Road Surfaces, 2002, Thessaloniki, 21-22 November 2002.
2003	E-Learning by Compact. Beginning Access 2000 user. April 2003
2003	14th Concrete Conference, Technical Chamber of Greece, 2003, Kos, Greece.
2003	Scientific Conference “Geotechnical and geological Issues: Importance to and Progress of Egnatia Motorway” Egnatia Odos S.A., Technical Chamber of Greece - Epirus Division, and the Hellenic Society of Soil Mechanics and Geotechnical Engineering, Ioannina, Greece 13-14 Νοεμβρίου
2004	Hellenic Red Cross. First Aid Seminar, Thessaloniki, 24-28 May 2004.
2004	3rd Scientific Conference in Project Management “Clusters in Project Management of Structures, Aristotle University and the National Technical University of Athens, Thessaloniki, Greece, 24-25 September, 2004
2006	Seminar “4th Community Support Framework 2007-2013”, Thessaloniki, Greece by OIKONOMOTECHNIKI, 5-10 October 2006.
2009	Fifth International Conference on Construction in the 21st Century (CITC-V) “Collaboration and Integration in Engineering, Management and Technology” Istanbul, Turkey, May 20-22, 2009

2010	PM-05: Advancing Project Management in the 21st Century “Concepts, Tools and Techniques for Managing Successful Projects” Crete, Greece 29-31 May 2010.
2012	Transport Research Arena - Europe 2012, Athens, 23-26 April 2012
2014	Seminar “The new rules for public works, supplies and services contracts, 2014, Thessaloniki, Forum Professional Training.
2015	Eighth International Conference on Construction in the 21st Century (CITC-8) “Changing the Field: Recent Developments for the Future of Engineering and Construction” Thessaloniki, Greece, May 27-30, 2015
2016	Seminar “New Legal Framework Regarding Procurement, Award and Execution of Public Design and works contract according to L. 4412/2016” 19 December 2016. TUV Hellas
2017	FIDIC Training Workshop: Module 1: Practical Use of the FIDIC Contracts, June 29 and 30, 2017, Thessaloniki, Greece. Husni Madi, FIDIC International Accredited Trainer.
2022	2nd International Workshop on Water, Wastewater and Environment: Technology, Traditions and Culture, 22 March 2022, World Water Day, Hellenic Open University.
2022	Two-day conference on the theme: "Distance education: the next day", 30-31 May 2020, organized by the Open Technologies Agency EELLAK, the National Authority for Higher Education, the Institute of Education Policy, Universities and Research Centers
2022	Springer Nature Author Workshop: Open Access and Heal-link Transformative Agreement in Greece, 20 September 2022.
2022	3rd International Conference on Environmental Design (ICED2022), October 22 & 23 in hybrid mode: Athens, Greece and virtually

Sindos, February 2023