



CURRICULUM VITAE

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Associate Professor

University of Thessaly, School of Engineering, Department of Civil Engineering,
Laboratory Hydromechanics of and Environmental Engineering
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1. Academic Positions

- 14/05/2021 - today: Associate Professor, Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 1098, Issue Γ, 14/05/2021). Member of Laboratory of Hydromechanics and Environmental Engineering (Director: Professor A. Liakopoulos).
- 07/02/2020 - 13/05/2021: Assistant Professor (Tenured), Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 125, Issue Γ, 07/02/2020).
- 01/06/2016 - 06/02/2020: Assistant Professor, Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 491, Issue Γ, 01/06/2016).

- 26/06/2014 - 31/05/2016: Lecturer, Department of Civil Engineering, University of Thessaly with module “Experimental Hydraulics” (FEK 804, Issue Γ, 26/06/2014).

2. Education

- 1989-1994: Diploma of Aristotle University of Thessaloniki, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering, **grade 7.36.**
- 1995-1996: MSc Department of Civil Engineering, Division of Hydraulic and Environmental Engineering
- 1996-2001: PhD, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering, **grade 10.**
- August 2003: Attendance of short course «Integrated River and Coastal Zone Management», 30th International Association of Hydraulic Research Congress, Thessaloniki, Greece.
- April 2015: Attendance of workshop «2nd Workshop for the Fatigue of Materials Used in Vascular Surgery», Thessaloniki, Greece.
- August 2018: Attendance of Conference MPS’ 2018 «International Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces», Budapest, Hungary.

3. Other Skills

- Excellent knowledge of graphics package Grapher
- Excellent knowledge Labview program
- Languages: English (C1), Italian (B2)

4. Ερευνητικά Ενδιαφέροντα

- Hydraulics of Closed and Open Conduits
- Flows of Closed and Open Conduits
- Experimental Measurements (Hot-Film Anemometry, Particle Image Velocimetry)
- Computational Hydraulics
- Flows in Porous Media
- Gravity Currents in Lock-Exchange Experiments
- Buoyant Jets in Closed and Open Conduits

5. Courses

Today

- Teaching of 3 courses in Department of Civil Engineering in University of Thessaly.

Specifically:

1. **Hydraulics** (5th semester)
2. **Experimental Hydraulics** (8th Semester)
3. **Unsteady Flows** (9th semester)

- Teaching in Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy" (from 2018-19):

1. **Flood protection of urban and peri-urban areas** (2nd semester)
2. **Water Resources Management and Circular Economy** (2nd semester, co-teaching with Kanakoudis V.)

- Teaching in the Postgraduate Studies Program at International Hellenic University in the Department of Environmental Engineering entitled "Design and Construction of Technical Projects", (from 2018-19):

1. **Hydraulic and Coastal Projects** (2nd semester, co-teaching with Y. Savvidis).

- Past

- 1/10/1996-30/6/2000: Assistant at laboratory exercises of a) «**Fluid Mechanics**» (3rd Semester) and b) «**Hydraulics**» (4th semester) for Civil Engineering Dept., Aristotle University of Thessaloniki.
- 26/03/2002-12/07/2013: Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**River Mechanics**» (7th Semester) theory and laboratory exercises.
- 06/11/2003-12/07/2013: Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydrology-Groundwater Hydraulics**» (4th semester) theory and laboratory exercises.
- 16/03/2004-21/02/2006: Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Water Supply**» (5th semester) theory.
- 01/10/2007-12/07/2013: Research Associate of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics II**» (4th semester) theory and laboratory exercises.

- 01/09/2010-02/07/2014: Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Experimental Hydraulics**» (8th semester).
- 17/10/2012-02/07/2014: Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Unsteady Flows**» (9th semester).
- 17/10/2012-02/07/2014: Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Environmental Fluid Mechanics**» (9th semester).
- 01/03/2014-02/07/2014: Visiting Professor of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering «**Flows in Natural and Artificial Open Channels**» (8th semester).
- 2ndSemester 2014-15: Teaching of «**Hydraulics**» (5th semester) of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering (co-teaching with Katsardi V.)
- 1stSemester 2017-18: Teaching of «**Hydraulics**» (5th semester) of University of Thessaly, Department of Civil Engineering, Division of Hydraulic and Environmental Engineering (co-teaching with Associate Kanakoudis V.)
- 1stSemester 2017-18: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics I**» (3th semester) theory.
- 1stSemester 2017-18: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Water Supply**» (5th semester) theory.
- 2ndSemester 2017-18: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics II**» (4th semester) theory.
- 2ndSemester 2017-18: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Sewerage**» (6th semester) theory.
- 1stSemester 2018-19: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics I**» (3th semester) theory.

- 1stSemester 2018-19: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Water Supply**» (5th semester) theory.
- 2ndSemester 2018-19: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Hydraulics II**» (4th semester) theory.
- 2ndSemester 2018-19: Visiting Professor of Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering «**Sewerage**» (6th semester) theory.
- 1stSemester 2019-20: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics I**» (3th semester) theory.
- 1stSemester 2019-20: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Water Supply**» (5th semester) theory.
- 2ndSemester 2019-20: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics II**» (4th semester) theory.
- 2ndSemester 2019-20: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Sewerage**» (6th semester) theory.
- 1stSemester 2020-21: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics of Closed Pipes**» (3th semester) theory.
- 1stSemester 2020-21: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Water Supply**» (5th semester) theory.
- 2ndSemester 2020-21: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics of Open Channel Flow**» (4th semester) theory.
- 2ndSemester 2020-21: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Sewerage**» (6th semester) theory.
- 1stSemester 2021-22: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «Hydraulics of Closed Pipes» (3th semester) theory.
- 1stSemester 2021-22: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «Water Supply Systems and Water Treatment» (5th semester) theory.
- 2ndSemester 2021-22: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Hydraulics of Open Channel Flow**» (4th semester) theory.
- 2ndSemester 2021-22: Visiting Professor of International Hellenic University in the Department of Environmental Engineering, «**Sewerage**» (6th semester) theory.

TEACHING EVALUATION FROM UNDERGRADUATE STUDENTS: GRADE 4.60/5.00
(Average of the Department **4.07/5.00**).

6. Research Projects

Participating in 21 Research Projects

A) Principal As Investigator

1. 14/15/2019-31/12/2020: Principal Investigator Researcher in the research project entitled «Research project for the selection of the optimal method for the development of an artificial neural network for flood phenomena simulation in the urban area of Amyntaio using rainfall field measurements», with code 6092 και total amount of 12.400 euros.

B) As Main Researcher

1. 21/04/2013 - 30/06/2013: Main Researcher in the research project entitled «1) Upgrading the experimental procedure of the flow in an channel with periodical grooves in the bed a) with flow under pressure, b) with free surface flow, 2) Investigation of the possibility to study the flow with the PIV system of the Laboratory of Hydromechanics and Environmental Engineering» implemented by the Civil Engineering Dept. of the University of Thessaly.

2. 10/04/2013 – 31/08/2015: Main Researcher in the research project "Archimedes III – research groups in Alexander TEI of Thessaloniki» MIS 383572 code «education and lifelong learning» [Sub-project 33 entitled «Optimum design of the communication of lateral harbor with main flow. Application to small ports and Fishponds»].

3. 01/05/2018- : Main Researcher in the project «Experimental and numerical investigation of particulate gravity currents in a trapezoidal channel» with code 5603.

C) As Associate Principal Investigator and Staff Member

1. 27/06/2017-31/08/2018: Associate Principal Investigator and Staff Member in research program «International Conference EWaS3 (27-30/06/2018 Lefkada)» with code 5404.

2. 2017-19 «WATenERgy CYCLE: Urban water full cycle: from its source to its end-users and back to the environment», INTERREG Balkan-Mediterranean 2014-20 project: Associate Principal Investigator and Staff Member with code 5412.
3. 2017-18 «Technical Support Services Consultant of the Water Directorate of E.M.Th. for the management and monitoring of water quality of River Basin Management Plans»: Associate Principal Investigator and Staff Member with code 5580.
4. 2017-19 «WATER RESCUE: Water resources efficiency and conservative use in drinking water supply systems», INTERREG V-A Greece-Bulgaria 2014-20 project: Associate Principal Investigator and Staff Member with code 5581.
5. 2018-20 «SaveSafeWater-Networking for Reciprocal Safe Cross Border Water Supply towards a Worth Living Environment» INTERREG V-A Greece-Albania 2014-20 project: Associate Principal Investigator and Staff Member with code 5754.
6. 2015-16 «DRINKADRIA: Networking for Drinking Water Supply in Adriatic Region», IPA ADRIATIC project: Associate Principal Investigator and Staff Member with code 4929.
7. 07/05/2019-31/08/2020: Associate Principal Investigator and Staff Member in research program «EWaS4-“Valuing the Water, Carbon, Ecological Footprints of Human Activities” (24-27/06/2020)» with code 6093.
8. 2019-20: Associate Principal Investigator and Staff Member in research program: «Provision of supporting services for the development of a joint methodology and tools for the reduction of Non-Revenue Water and the optimization of the quality of drinking water and the application of the pilot action of DEYA of Zakynthos in project: SUstaiNable WATER supply networks in Mediterranean touristic areas (Sun Water)», INTERREG V-A Greece-Italy 2014-20, with code 6142.
9. 2019-20: Associate Principal Investigator and Staff Member in research program «Provision of supporting services for the development of a joint methodology and tools for the reduction of Non-Revenue Water and the optimization of the quality of drinking water and the application of the pilot action of DEYA of Igoumenitsa», INTERREG V-A Greece-Italy 2014-20, με κωδικό 6214.
10. 2019-21: Associate Principal Investigator and Staff Member in research program «MUHAMUTLIHAZARD FRAMEWORK for WATER RELATED RISKS MANAGEMENT», INTERREG V-B Adriatic-Ionian/ADRION 2014-2020 project, with code 6354.
11. 2021-22: Associate Principal Investigator and Staff Member in research program «Research actions in the management of urban hydraulic projects and water resources», with code 6749.
12. 2021-today: Associate Principal Investigator and Staff Member in research program «Digital capture of the water supply network of the Municipality of Amorgos», with code 6808.

D) As Staff Member

1. 04/10/1994 - 12/11/1994: Worked as an External Expert (contracted) in a research project implemented by the Civil Engineering Dept. of the Aristotle University of Thessaloniki (financed by the Water Utility of Thessaloniki - OUTH) in the field of hydraulic and environmental engineering entitled «Public poll by OUTH on the Public's reaction regarding drinking water supply and water issues in general».
2. 01/01/1999 - 31/03/1999: Worked under an employment contract in a research project entitled «Upgrading the civil engineering Studies by introducing of modern methods and tools of education» implemented by the Civil Engineering Dept. of the Aristotle University of Thessaloniki.
3. 2015-17: «Performance evaluation of the water distribution networks of the municipal districts of Eani and Krokos of DEYA Kozani and investigation of the sustainability point between efficient and reciprocal use of the water distribution network of DEYA Kozani implementing new technologies», with code 5062.
4. 2017-20: «Development of an Early Warning System for the safety of drinking water in water distribution networks», with code 5394.
5. 2018- : «Interdepartmental postgraduate programme - Sustainable Management of Environmental Changes and Circular Economy», with code 5829.

7. Publications

7.1. GUEST EDITOR-EDITORIALS IN INTERNATIONAL JOURNALS (4)

- Kanakoudis V., Karatzas G., **Keramaris E.**, (2016) «Preface/Guest Editorial: The 2nd EWaS International Conference on Efficient and Sustainable Water Systems Toward Worth Living Development», Procedia Engineering Journal, Elsevier, 162: 1-2.
DOI:10.1016/j.proeng.2016.11.001.
- **Keramaris E.**, (2017) «Preface/Guest Editorial: The 2nd EWaS International Conference on Efficient and Sustainable Water Systems Toward Worth Living Development», Special Topics and Reviews in Porous Media: An International Journal, Begell House, 8(2): v-vi,
DOI: 10.1615/SpecialTopicsRevPorousMedia.2017020499.

- **Keramaris E.**, (2020) «Preface/Guest Editorial: Journal of Marine Science and Engineering, Special Issue “Experiments and Numerical Analysis of Flow”».
- Kanakoudis V., **Keramaris E.**, (2020) « The 4th EWaS International Conference: Valuing the Water, Carbon, Ecological Footprints of Human Activities», Environmental Sciences Proceedings, 2 (1), 62. **DOI: [10.3390/environsciproc2020002062](https://doi.org/10.3390/environsciproc2020002062)**

7.2. TOTAL PUBLICATIONS: 86

PhD Thesis: 1

In Journals: 46

- *In International Journals: 41*
- *In Greek Journals: 3*
- *In Greek Special Issues: 2*

In Conferences: 39

- *in International Conferences: 21*
- *in Greek Conferences: 18*

PhD Thesis (1)

Keramaris E., (2001) «Turbulent Flow I an Open Channel with a Porous Bed», PhD Thesis, Aristotle University of Thessaloniki, Department of Civil Engineering.

A) Publications in International Journals (41)

A.1. Prinos P., Sofialidis D., **Keramaris E.**, (2003) «Turbulent Flow Over and Within a Porous Bed», *Hydraulic Engineering*, ASCE, 129(9): 720-733, ASCE.

DOI: [http://dx.doi.org/10.1061/\(ASCE\)0733-9429\(2003\)129:9\(720\)](http://dx.doi.org/10.1061/(ASCE)0733-9429(2003)129:9(720))

A.2. **Keramaris E.**, Prinos P., (2009) «Flow Characteristics in Open Channels with Permeable Bed», *Porous Media*, Begell House, 12 (2): 155-165. **DOI: [10.1615/JPorMedia.v12.i2](https://doi.org/10.1615/JPorMedia.v12.i2)**

- A.3. Keramaris E.,** (2010) «Comparison between different porous bed (porous filter and rods bundle) in open channels», *Porous Media*, Begell House, 13(2): 183-193. **DOI:** [10.1615/JPorMedia.v13.i2.80](https://doi.org/10.1615/JPorMedia.v13.i2.80)
- A.4. Pechlivanidis G., Keramaris E., Pechlivanidis I., Samaras G.,** (2012) «Measurements of Turbulent Characteristics in an Open Channel Using PIV (Particle Image Velocimetry)», *GlobalNEST*, 14(3): 378-385.
- A.5. Keramaris E.,** (2012) «The Impact of Vegetation on the Characteristics of the Flow in an Inclined Open Channel using the PIV Method», *Water Resources and Ocean Science*, Science Publishing Group, 1(1): 1-8. **DOI:** [10.11648/j.wors.20120101.11](https://doi.org/10.11648/j.wors.20120101.11)
- A.6. Keramaris E., Pechlivanidis G.,** (2013) «PIV Measurements Over a Permeable and an Impermeable Bed», *Porous Media*, Begell House, 16(1): 21-28. **DOI:** [10.1615/JPorMedia.v16.i1.30](https://doi.org/10.1615/JPorMedia.v16.i1.30)
- A.7. Savvidis Y., Zafiriou S., Keramaris E.,** (2013) «Energy Production form Sea Waves and Currents», *Environmental Protection and Ecology*, BENA, 14(3): 922-932.
- A.8. Pechlivanidis G., Keramaris E., Pechlivanidis I.,** (2015) «Experimental Study of the Effects of Permeable Bed (Grass Vegetation and Gravel Bed) on the Turbulent Flow Using Particle Image Velocimetry», *Turbulence*, Taylor and Francis, 16(1): 1-16. **DOI:**[10.1080/14685248.2014.946605](https://doi.org/10.1080/14685248.2014.946605)
- A.9. Pechlivanidis G., Keramaris E., Pechlivanidis I., Samaras G.,** (2015) «Shear Stress Estimation at the Linear Zone Over Impermeable and Permeable Bed in Open Channels», *Desalination and Water Treatment*, Taylor and Francis, 54(8): 2181-2189. **DOI:**[10.1080/19443994.2014.933622](https://doi.org/10.1080/19443994.2014.933622)
- A.10. Keramaris E.,** (2015) «Effects of Inclined Impermeable Bed on the Turbulent Characteristics of the Flow using Particle Image Velocimetry», *Turbulence*, Taylor and Francis, 16(6): 540-554. **DOI:**[10.1080/14685248.2015.1016163](https://doi.org/10.1080/14685248.2015.1016163)
- A.11. Keramaris E., Pechlivanidis G.,** (2015) «The influence of transition from vegetation to gravel bed and vice versa in open channels using the PIV Method», *Water Utility*, EWRA Publishing, (10): 37-43.
- A.12. Keramaris E., Pechlivanidis G., Pechlivanidis I.,** (2015) «The different impact of a half-separated gravel and vegetated bed in open channels», *Environmental Processes*, Springer, 2(1): 123-132. **DOI:**[10.1007/s40710-015-0103-5](https://doi.org/10.1007/s40710-015-0103-5)
- A.13. Keramaris E., Prinos P.,** (2015) «Gravity Currents in a Vegetated Valley of Trapezoidal Shape», *Applied Fluid Mechanics*, IUT Publisher, 9(3): 1051-1056.
- A.14. Keramaris E.,** (2016) «Velocity Distribution in open channels with sand:An experimental study», *Civil, Environmental, Structural, Construction and Architectural Engineering*, Waset.org publication, 10(4): 422-426.

- A.15. Keramaris E.,** Pechlivanidis G., (2016) «Inclined Open Channels : The Influence of Bed in Turbulent Characteristics of the Flow», Notes on Numerical Fluid Mechanics and Multidisciplinary Design, *Advances in Fluid-Structure Interaction*, Springer 133: 75-88. [DOI:10.1007/978-3-319-27386-0_5](https://doi.org/10.1007/978-3-319-27386-0_5)
- A.16. Keramaris E.,** Pechlivanidis G., (2016) «The behaviour of a turbulent buoyant jet into flowing environment», *Procedia Engineering Journal*, Elsevier, 162: 120-127. [DOI:10.1016/j.proeng.2016.11.027](https://doi.org/10.1016/j.proeng.2016.11.027)
- A.17.** Pechlivanidis G., Savvidis Y., **Keramaris E.,** Koutitas C., (2016) «Investigation of the optimum connection of a fish pond with the adjacent main riverine flow», *Procedia Engineering Journal*, Elsevier, 162: 349-356 [DOI:10.1016/j.proeng.2016.11.074](https://doi.org/10.1016/j.proeng.2016.11.074)
- A.18. Keramaris E.,** Pechlivanidis G., Kasiteropoulou D., Michalolias N., Liakopoulos A., (2016) «Experimental and numerical study of turbulent flow in open channels with impermeable and porous bed», *Procedia Engineering Journal*, Elsevier, 162: 381-387. [DOI:10.1016/j.proeng.2016.11.078](https://doi.org/10.1016/j.proeng.2016.11.078)
- A.19. Keramaris E.,** (2016) «Similarities and differences between hot-film anemometry and particle image velocimetry measurements in open channels», *Procedia Engineering Journal*, Elsevier, 162: 388-395. [DOI:10.1016/j.proeng.2016.11.079](https://doi.org/10.1016/j.proeng.2016.11.079)
- A.20. Keramaris E.,** Prinos P., (2016) «Effect of cross sectional shape on gravity currents in vegetated valleys», *International Journal of Advances in Mechanical and Civil Engineering*, Institute of Research and Journals, 3(6): 35-39, [DOI:IJAMCE-IRAJ-DOI-6385](https://doi.org/10.1016/j.ijamce-iraj-doi-6385)
- A.21. Keramaris E.,** Pechlivanidis G., (2017) «Effects of different porous beds on turbulent characteristics in an open channel above the porous bed», *Flow Measurement and Instrumentation*, Elsevier, 54: 20-26. [DOI:10.1016/j.flowmeasinst.2016.11.007](https://doi.org/10.1016/j.flowmeasinst.2016.11.007)
- A.22. Keramaris E.,** (2017) «Turbulence structure in uniform inclined open channel flow over different rough porous beds», *Sediment Research*, Elsevier, 32: 45-52. [DOI:http://dx.doi.org/10.1016/j.ijsrc.2016.04.006](http://dx.doi.org/10.1016/j.ijsrc.2016.04.006)
- A.23. Keramaris E.,** Pechlivanidis G., (2017) «The influence of the kind of the permeable bed and channel width in inclined open channels», *ISH Journal of Hydraulic Engineering*, Taylor and Francis, 23(2): 118-125. [DOI:10.1080/09715010.2016.1242384](https://doi.org/10.1080/09715010.2016.1242384)
- A.24.** Savvidis Y., **Keramaris E.,** Pechlivanidis G., Koutitas C., (2017) «Optimum design of the entrance of a fishpond laterally to the main stream of an open channel», *Environmental Science and Pollution Research*, 24(25), 20122-20133, Springer. [DOI: 10.1007/s11356-017-8696-z](https://doi.org/10.1007/s11356-017-8696-z)
- A.25.** Kasiteropoulou D., Liakopoulos A., Michalolias N., **Keramaris E.,** (2017) «Numerical modelling and analysis of turbulent flow in an open channel with submerged vegetation», *Environmental Processes*, Springer, 217(4): 47-61. [DOI: 10.1007/s40710-017-0235-x](https://doi.org/10.1007/s40710-017-0235-x)

- A.26. Keramaris E.,** Kasiteropoulou D., Liakopoulos A., Michalolias N., Pechlivanidis G., (2017) «A study of flow in open channels with vegetation: Experiments and numerical models», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 109-129, **DOI:** [10.1615/SpecialTopicsRevPorousMedia.2017019692](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2017019692)
- A.27. Savvidis Y., Keramaris E.,** (2017) «Numerical study of particle transport in a river with a lateral harbor basin», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 127-135, **DOI:** [10.1615/SpecialTopicsRevPorousMedia.2017020002](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2017020002)
- A.28. Keramaris E.,** (2017) «The impact of the instrument in velocity measurements in an open channel with porous bed», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 137-144, **DOI:** [10.1615/SpecialTopicsRevPorousMedia.2017019004](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2017019004).
- A.29. Keramaris E.,** (2017) «The influence of different type of permeable bed (flexible vegetation and inflexible rods bundle) in gravity currents», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 8(2): 159-166, **DOI:** [10.1615/SpecialTopicsRevPorousMedia.2017020421](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2017020421)
- A.30. Pechlivanidis G., Keramaris E., Savvidis Y.,** (2018) «Turbulent Simulation of the flow around different positions of mussel shocks», *Proceedings*, MDPI, 2(11), 574, **DOI:** <https://doi.org/10.3390/proceedings2110574>
- A.31. Michalolias M., Keramaris E., Kasiterpoulou D., Liakopoulos A., Pechlivanidis G.,** (2018) «Experiments and numerical analysis of flow in an open channel with gravel bed», *Proceedings*, MDPI, 2(11), 581, **DOI:** <https://doi.org/10.3390/proceedings2110581>
- A.32. Savvidis Y., Keramaris E., Pechlivanidis G., Koutitas C.,** (2018) «Modelling of environmental parameters of a harbour basin in a coastal zone with a seawall», *Proceedings*, MDPI, 2(11), 581, **DOI:** <https://doi.org/10.3390/proceedings2110575>
- A.33. Keramaris E., Pechlivanidis G.,** (2020) «Boundary effects of vertical buoyant jets in a stagnant fluid in a crossflow», *Experimental Techniques*, 44, 149-158, **DOI:** <https://doi.org/10.1007/s40799-019-00320-4>.
- A.34. Petikas I., Keramaris E., Kanakoudis V.,** (2020) «Calculation of Multiple Critical Depths in Open Channels Using an Adaptive Cubic Polynomials Algorithm», *Water*, 12(3), 799, **DOI:** <https://doi.org/10.3390/w12030799>.
- A.35. Vardakostas S., Kementsetsidis S., Keramaris E.,** (2020) «Saline gravity currents with large density difference with fresh water in a valley of trapezoidal shape», *Environmental Sciences Proceedings*, MDPI, 2(1), 64, **DOI:** <https://doi.org/10.3390/envirosciproc2020002064>

A.36. Petikas I., **Keramaris E.**, Kanakoudis V., (2020) «A Novel Method for the Automatic Extraction of Quality Non-Planar River Cross-sections from Digital Elevation Models», *Water*, 12(12), 3553, **DOI:** <https://doi.org/10.3390/w12123553>

A.37. **Keramaris E.**, (2021) «Velocity profiles in a random porous bed», *Special Topics and Reviews in Porous Media: An International Journal*, Begell House, 12(3), 1-9. **DOI:** [10.1615/SpecialTopicsRevPorousMedia.2020030683](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2020030683)

A.38. **Keramaris E.**, Loukas Y., Droulias G., (2021) «Study of hydraulic jump characteristics in a laboratory open channel», *Special Topics & Reviews in Porous Media: An International Journal*, Begell House 12(4), 51-58. **DOI:** [10.1615/SpecialTopicsRevPorousMedia.2021034245](https://doi.org/10.1615/SpecialTopicsRevPorousMedia.2021034245)

A.39. Savvidis Y., **Keramaris E.**, (2021) «Study of waters' renewal and sedimentation of a Harbor in a Coastal Front with Seawalls», *Sediment Research*, Elsevier, 36(3): 373-383, **DOI:** <https://doi.org/10.1016/j.ijsrc.2020.11.001>.

A.40. **Keramaris E.**, Thanos N., Tsintsifas L., (2021) «The Effect of Flexible Vegetation in Gravity Currents with Large Salinity in Composite Cross Section», *Experimental Techniques*, 1-8, **DOI:** <https://doi.org/10.1007/s40799-021-00500-1>

A.41. **Keramaris E.**, Vasileiou C., Sagiannis K., (2022) «Gravity currents with Large Salinity in a Gravel Bed Valley: An Experimental Study», *Water Supply*, **DOI:** <https://doi.org/10.2166/ws.2022.150>

B) Publications in Greek Journals (3)

B.1. **Keramaris E.**, Prinos P., (2006) «Measurement of Discharge with Permeable Broad-Crested Weirs», *Hydrotehnika*, 16: 73-82.

B.2. **Keramaris E.**, Prinos P., (2009) «Hot-Film Measurements of Turbulent Flow in an Open Channel with a Permeable Bed», *Hydrotehnika*, 18-19: 3-20.

B.3. Savvidis I., **Keramaris E.**, Pechlivanidis G., Koutitas C., (2017) «Computation of Optimum WaterCourse Flow Velocity for Sustainable Operation of a Fish Reservoir Laterally to the Flow», *Hydrotehnika*, 26: 41-52.

Γ) Publications in Greek Special Issues (2)

Γ.1. **Keramaris E.**, (2014) «Experimental studies of turbulent flow over permeable and impermeable bed», *Advances in Civil Engineering Research, A Collection of Articles on the Occasion of the Twentieth Anniversary of the Founding of the Civil Engineering Department, University of Thessaly*, 187-198.

Γ.2. Pechlivanidis G., Savvidis I., **Keramaris E.**, Koutitas C., (2019) «Experimental and numerical study of a fish reservoir or a small harbor laterally to the flow», honorary volume for Christopher Koutitas and Demosthenes Angelides.

Δ) Publications in International Conferences (21)

Δ.1. Prinos P., **Keramaris E.**, (1998) «Characteristics of Turbulent Flow over a Porous Bed», Proc. of 3rd International Conference on Hydrosience and Engineering (ICHE), (full paper available in CD-ROM), Cottbus/Berlin, Germany, September 1998.

Δ.2. **Keramaris E.**, Prinos P., (2003) «Measurements and Instrumentation in Hydraulic Research», Proc. of 30th International Association of Hydraulic Research Congress (IAHR), Theme E: 211-215, Thessaloniki, Greece, August 2003.

Δ.3. **Keramaris E.**, Prinos P., (2007) «Turbulent flow in an open channel with vegetation», Proc. of 32th International Association of Hydraulic Research Congress (IAHR), (Abstract pag.164), (full paper available in CD-ROM), Venice, Italia, July 2007.

Δ.4. **Keramaris E.**, Prinos P., (2008) «Gravity currents over a vegetated bed», Proc. of International Conference on Fluvial Hydraulics, RiverFlow 2008, 1: 305-310, Cesme-Izmir, Turkey, September 2008.

Δ.5. **Keramaris E.**, (2008) «Study of distribution time of rainfalls in Greece», Proc. of 8th International Hydrogeological Congress, 2:525-534, Athens, Greece, October 2008.

Δ.6. **Keramaris E.**, Prinos P., (2009) «Lock-Exchange Experiments: Effect of Vegetation Drag on Gravity Currents», Proc. of 33th International Association of Hydraulic Research Congress (IAHR), 1491-1496, Vancouver, Canada, August 2009.

Δ.7. **Keramaris E.**, Prinos P.,(2010) «Gravity Currents in a Valley of Trapezoidal Shape», Proc. of International Conference on Fluvial Hydraulics, RiverFlow 2010, 599-604, Braunschweig, Germany, September 2010.

Δ.8. Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., Samaras G., (2012) «Measuring the Vorticity Above Vegetated Bed Using PIV Technique», Proc. of International Conference Protection and Restoration of the Environment XI, (Abstract pag.125), (full paper available in CD-ROM), Thessaloniki, July 2012.

Δ.9. Pechlivanidis G., **Keramaris E.**, Samaras G., (2013) «Estimating of the Shear Stress in Turbulent Boundary Layers in an Open Channel», (full paper available in CD-ROM, paper EMC_p152), 1stEWaS-MED international Conference, Thessaloniki, Greece, April 2013.

- A.10. Keramaris E.,** Pechlivanidis G., (2013) «Comparison Between Permeable and Impermeable Bed in Inclined Open Channels», (full paper available in CD-ROM), ERCOFTAC Symposium on Unsteady Separation in Fluid-Structure Interaction, Mykonos, Greece, June 2013
- A.11. Keramaris E.,** Pechlivanidis G., Pechlivanidis I., Samaras G.,(2013) «The Impact of Lateral Walls on the Velocity Profile in an Open Channel using the PIV Method», (full paper available in CD-ROM), 13th International Conference on Environmental Science and Technology (CEST 2013), Athens, Greece, September 2013.
- A.12. Keramaris E.,** Pechlivanidis G., Pechlivanidis I., (2014) «Effects of a half-separated (impermeable and permeable) bed on the velocity distribution in open channels», (Abstract pag.211), (full paper available in CD-ROM),Protection and Restoration of the Environment XII International Conference, Skiahtos, Greece, June–July 2014.
- A.13.** Pechlivanidis G., **Keramaris E.,** Pechlivanidis I., (2014) «Transition from permeable to impermeable beds and vice versa in open channels: Effects on the velocity distribution of turbulent flow», Proc. of the International Conference on Fluvial Hydraulics, RiverFlow 2014, 81-87, Lausanne, Switzerland, September 2014.
- A.14. Keramaris E.,** Pechlivanidis G., (2015) «The different impact of rods bundle in an inclined open channel in comparison with other permeable beds», Proc. of 13th International Conference on Fluid Mechanics and Aerodynamics (FMA 2015), 119-125, Salerno, Italy, June 2015.
- A.15.** Pechlivanidis G.,**Keramaris E.,** Yannopoulos P., Pechlivanidis I., (2015) «Experimental study of the flow field of a turbulent buoyant jet in a confined denser fluid», Proc. of 14th International Conference on Environmental Science and Technology, CEST 2015, 1-5, Rhodes, Greece, September 2015.
- A.16. Keramaris E.,** (2019) «Gravity currents with salt water in valleys», Proc. of International Conference on Architectural and Environmental Engineering, (ICAEE 2019), (Abstract page 6), 2-3 January 2019, New York, USA.
- A.17. Keramaris E.,** Kanakoudis V. (2020) «Techniques of measurements and instruments in hydraulic research: A review of published studies», Proc. of ICFMHTME 2020: 22nd International Conference on Fluid Mechanics and Heat Transfer in Mechanical Engineering, 1793-1798, 27-28 February, Buenos Aires, Argentina.
- A.18. Keramaris E.,** Kanakoudis V. (2020) «Experimental study of discharge with sharp-crested weirs», Proc. of ICFMHTME 2020: 22nd International Conference on Fluid Mechanics and Heat Transfer in Mechanical Engineering, 1799-1802, 27-28 February, Buenos Aires, Argentina.
- A.19.** Kanakoudis V., Tsitsifli S., Papadopoulou A., **Keramaris E.,** (2020) ««WATenERgy CYCLE: Assessing water use efficiency in the Balkan-Mediterranean area», Proc. of ICFMH 2020: 22nd

International Conference on Fluid Mechanics and Hydraulics, 1896-1900, 2-3 March, Rio de Janeiro, Brazil.

A.20. Kanakoudis V., Tsitsifli S., **Keramaris E.**, (2020) «Socially fair domestic water pricing: benchmarking of two Greek cities», Proc. of ICFMH 2020: 22nd International Conference on Fluid Mechanics and Hydraulics, 1901-1905, 2-3 March, Rio de Janeiro, Brazil.

A.21. Leousidis A., Pechlivanidis G., **Keramaris E.**, Savvidis Y., (2022) «Experimental Study of the effects of Heating or Cooling on the Water Surface in Open Channel», accepted for presentation for 5th EWaS International Conference, 12-15 July, 2022 – Naples, Italy.

E) Publications in Greek Conferences (18)

E.1. Prinos P., **Keramaris E.**, (1997) «Turbulent flow in an open channel with a porous bed», Proc. of 7th National Conference of Hellenic Hydrotechnical Association, 318-325, Patra, October 1997.

E.2. **Keramaris E.**, Prinos P., (2006) «Stream Restoration : Practical Approach and Best Design», Proc. of 10th National Conference of Hellenic Hydrotechnical Association, 531-538, Xanthi, December 2006.

E.3. **Keramaris E.**, Prinos P., (2006) «Two-Dimensional Gravity Currents with High Density Difference», Proc. of 10th National Conference of Hellenic Hydrotechnical Association, 695-702, Xanthi, December 2006.

E.4. Thanasis G., **Keramaris E.**, Zagas T. (2007) «Forest Species for urban and periurban greening establishment according to climatic data», Proc. of 13th National Forestry Conference, 246-255, Kastoria, October 2007.

E.5. **Keramaris E.**, Prinos P., (2007) «Numerical Simulation of Floodway Determination», Proc. of 13th National Forestry Conference, 533-542, Kastoria, October 2007.

E.6. **Keramaris E.**, Prinos P., Galanidou A., Katogianni M., (2009) «Gravity Currents in a Bed with Vegetation of Rods Bundle», Proc. of 11th National Conference of Hellenic Hydrotechnical Association, 603-610, Volos, May 2009.

E.7. **Keramaris E.**, Prinos P., (2010) «Gravity Currents : Effect of Flexible and Inflexible Vegetation», Proc. of 7th National Conference «FLOW 2010, Phenomenon of Fluid flows», 233-241, Thessaloniki, November 2010.

E.8. **Keramaris E.**, Petikas I., (2011) «Movement of Gravity Currents in Mountainous Areas with Presence of Plants Species», Proc. of 15th National Forestry, (Abstract pag.81), (full paper available in CD-ROM), Karditsa, October 2011.

E.9. Pechlivanidis G., **Keramaris E.**, Pechlivanidis I., (2012) «Influence of Turbulent Characteristics of the Flow in Permeable and Impermeable Bed», Proc. of 12th National Conference of Hellenic

Hydrotechnical Association, (Abstract pag.125), (full paper available in CD-ROM), Patra, October 2012.

E.10. Keramaris E., Pechlivanidis G., (2012) «Modern Techniques of Measuring Flow Fluid (Particle Image Velocimetry Method)», Proc. of 8th National Conference «FLOW 2012, Phenomenon of Fluid flows», (Abstract pag.33-34), (full paper available in CD-ROM), Volos, November 2012.

E.11. Keramaris E., Pechlivanidis G., Liakopoulos A., (2014) «Research Activities of the Department of Civil Engineering T.E. of Alexander Educational Institute of Thessaloniki and of the Department of Civil Engineering of University of Thessaly», Proc. of the 9th National Conference «FLOW 2014, Phenomenon of Fluid flows, 596-606, Athens, December 2014.

E.12. G.I. Pechlivanidis, E. Keramaris, Y. Savvidis, C. Koutitas, (2015) «Hydraulic Study of a Reservoir or Harbor Laterally to a Main Flow», Proc. of 3th joint Conference: 13th of Hellenic Hydrotechnical Association, 9th Hellenic Committee on Water Resources Management and 1st Hellenic Water Association «Integrated Management of Water Resources in new era», 411-418, Athens, December 2015.

E.13. N. Michalolias, D. Kasiteropoulou, E. Keramaris, A. Liakopoulos, (2015) «Computational Simulation of the Flow in an Open Channel With Natural Vegetation», Proc. of 3th joint Conference: 13th of Hellenic Hydrotechnical Association, 9th Hellenic Committee on Water Resources Management and 1st Hellenic Water Association «Integrated Management of Water Resources in new era», 385-394, Athens, December 2015.

E.14. I. Karanis, I. Thanopoulos, E. Keramaris, A. Liakopoulos, (2015) «Design of a Small Hydroelectric Project in Pineios River», Proc. of 3th joint Conference: 13th of Hellenic Hydrotechnical Association, 9th Hellenic Committee on Water Resources Management and 1st Hellenic Water Association «Integrated Management of Water Resources in new era», 427-434, Athens, December 2015.

E.15. Keramaris E., Liakopoulos A., Pechlivanidis G., D. Kasiteropoulou, N. Michalolias (2016) «Study of Turbulent Flow in an Open Channel With Artificial Vegetation», Proc. of the 10th National Conference «FLOW 2016, Phenomenon of Fluid flows, POH2016-125: 1-9, Patra, December 2016.

E.16. Spyridis A., Koutalou V., Geka I., Zacharopoulos I., Keramaris E., Psilovikos A., Petikas I., Karamoutsou L. (2019) «Calculation of IDF Curves for the Area of Amyntaio», Proc. of the 14th Conference of Hellenic Hydrotechnical Association, 827-836, May, Volos, 2019.

E.17. Spyridis A., Koutalou V., Geka I., Zacharopoulos I., Psilovikos A., Keramaris E., Karamoutsou L., Petikas I. (2019) «Development and Implementation of Polynomial Equations of Synthetic Unit Hydrograph», Proc. of the 14th Conference of Hellenic Hydrotechnical Association, 861-867, May, Volos, 2019.

E.18. Leousidis A., Pechlivanidis G., **Keramaris E.**, Savvidis Y., (2022) «Μελέτη Θερμικής Σφήνας Λόγω Μεταβολών Θερμοκρασιακού Πεδίου σε Ανοικτό Αγωγό», δεκτή για παρουσίαση στο 15^ο Πανελλήνιο Συνέδριο Ελληνικής Υδροτεχνικής Ένωσης (Ε.Υ.Ε.), Θεσσαλονίκη, Ιούνιος 2022.

8. Identification of scientific work

8.1. Citations

In total 303 citations (google scholar)

8.2. Reviewer of International Journals

- 1) Journal of Porous Media, Begell House, from 2007.
- 2) International Journal of Heat and Fluid Flow, Elsevier, from 2009.
- 3) GlobalNest Journal, Global Nest, from 2012.
- 4) Fresenius Environmental Bulletin, Parlar Scientific Publications, from 2015.
- 5) Environmental Processes, Springer, from 2015.
- 6) Desalination and Water Treatment, Taylor and Francis, from 2015.
- 7) Environmental Earth Sciences, Springer, from 2015.
- 8) Journal of Hydraulic Engineering, Taylor and Francis, from 2015.
- 9) Environmental Engineering Science, Mary Ann Liebert Inc., from 2015.
- 10) Flow Measurement and Instrumentation, Elsevier, from 2017.
- 11) Water Science and Technology: Water Supply, IWA Publishing, 2017.
- 12) Water, IWA Publishing, from 2017.
- 13) Sensors, IWA Publishing, from 2018.
- 14) Fluids, IWA Publishing, from 2018.
- 15) Hydrology IWA Publishing, from 2019.
- 16) Physics of Fluids from 2021.

8.3. Evaluator of Research Proposals

2018 - today: Evaluator of research proposals from Secretariat for Management of Sectoral Business Programs of the European Social Funds.

2018 - today: Evaluator of research proposals from State Scholarships Foundation.

9. Author of Theory and Laboratory Notes

- «**River Mechanics**» (**Laboratory Notes**), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, January 2007.
- «**Hydraulics II**» (**Theory Notes**), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, March 2008.
- «**Hydraulics II**» (**Laboratory Notes**), Notes for Alexander Technological Educational Institute of Thessaloniki, Department of Civil Infrastructure Engineering, Division of Hydraulic and Environmental Engineering, March 2008.

10. Administrative Experience at the University of Thessaly

- Substitute Member of the Experts Committee for the technical evaluation of public tenders at the Civil Engineering Dept. of University of Thessaly since 2014 (Institution Managing Committee Decision 176/8-10-14).
- Supervisor of the Students' Practical Training at the Civil Engineering Dept. of University of Thessaly 2015-2017.
- Member of the Team of Internal Evaluation at the Civil Engineering Dept. of University of Thessaly 2015-2017.
- Member of the Team of Program and Examinations schedule at the Civil Engineering Dept. of University of Thessaly since 2016.
- Member of the Team of Program Studies at the Civil Engineering Dept. of University of Thessaly since 2017.
- Member of the Team of Objections of Students' Program of Practical Training at University of Thessaly since 2018.
- Member of the Team of Academic Advisor at the Civil Engineering Dept. of University of Thessaly since 2018.
- Member of the Coordinating Team of Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy" since 2018.
- Substitute Member of the Team of Admissions Selection of Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy" since 2018.
- Substitute Member of the Technical Council University of Thessaly since 2019.

11. Supervisor of PhD Students

1. Petikas I., (2017-2020) «Development and implementation of innovative methodologies, software and algorithms (ACPA, BECPA, ARHA, HYDROROLOGY) for the accurate calculation of hydraulic flow characteristics in the design of flood protection projects».
2. Leousidis A., (2019-) «Experimental and computational determination of fluid (water) velocity profiles in an open channels due to spatial temperature changes», in progress.

12. Member of Three-Member Committee of PhD Students

1. Karamoutsou L., (2016-2020) «Simulation models and risk analysis of water quality parameters in lakes», July 2020.
2. Kontinis N., (2019) «Multicriteria analysis in conflict management of water uses in water systems», in progress.

13. Member in PhD Thesis Examination Committees

1. Paschalidis, G., (2015) «Simulation of sediment discharge in a Watershed in the Downstream Dam Area», Thessaloniki, April 2015. Supervisor: Anagnostopoulos P.

14. Supervisor of MSc Students

14.1. Supervisor of MSc Thesis in Interdepartmental Postgraduate Program at the University of Thessaly entitled "Sustainable Management of Environmental Change and Circular Economy"

1. Bellos A., (2021) «Climate Change and Flood Events», July 2021.

14.2. Supervisor of MSc Thesis at Hellenic Open University

1. Leventaki E., (2017) «Optimization of the Heraklion biological cleaning - MBR method», September 2017.
2. Aggelopoulos P., (2018) «Error recording and ways to optimize wastewater treatment Facilities in areas with large sewage fluctuations», September 2018.
3. Tsifodimou E., (2018) «Comparing the performance of various sewage treatment systems by removing nutrients (phosphorus and nitrogen) from urban waste water. Suggestions for optimizing the design», September 2018.
4. Chorba E., (2022) «Upgrading and update of the biological wastewater treatment of a dairy. Case study of the biological treatment plant of the company «Agrotikos Galaktokomikos Sineterismos Kalavriton», in progress.

14.3. Supervisor of MSc Thesis at International Hellenic University

1. Terzoglou E., (2020) «Unsteady flow in closed pipe connected with a large width tank», March 2020.
2. Karagiannis G., (2020) «Numerical study of Water Hammer in water supply network of a small settlement», August 2020.
3. Gerantzi E., (2021) «Hydraulic computation of flow depths with the use of numerical program HEC-RAS», in progress.

15. Member of Committee of Diploma Thesis of Postgraduate Studies of Department of Civil Engineering of University of Thessaly

1. Tsigardas S-I., (2015) «Recording and Analysis wastewater treatment Plant operation Problems (WWTP-waste water treatment) and Proposals of dissolution», Supervisor: Laspidou C.
2. Tallarou M., (2015) «Techniques and technologies for rainwater harvesting and reuse» 2015 Supervisor: Kanakoudis V.

16. Supervisor-Member of Diploma Thesis

16.1. Supervisor of Diploma Thesis at the Civil Infrastructure Engineering Dept. of the Alexander Educational Institute of Thessaloniki

1. Dakou I., Pantelidou S., (2005) «Study of rainfall data from meteorological stations of Thessaloniki», September 2005.
2. Baroufa I., Papatthanasidou P., (2006) «Pollution and quality of water resources of the Central Macedonia Water District», November 2006.
3. Mantziri I., Mousouli D., (2007) «Study of turbulent flow in an open channel with flexible vegetation bed», October 2007.
4. Balafas G., Saoulidis P., (2007) «Experimental study for the calculation of discharge coefficient and discharge capacity in an open channel with the presence of a weir», November 2007.
5. Argyriou E., Gogou C., (2008) «Experimental study for the evaluation of the effect of vegetation in an inclined channel (lock-exchange)», April 2008.
6. Maggos A., (2008) «Experimental study of Gravity Currents», June 2008.
7. Galanidou A., Katogianni M., (2008) «Effect of rods bundle in gravity currents», November 2008.
8. Martsos E., Papatzilakis P., (2009) «Data analysis of daily rainfalls», February 2009.

9. Karadimas N., Michailidis, P., (2009) «Effect of gravity currents in an open channel with vegetation bed», November 2009.

16.2. Supervisor of Diploma Thesis at Civil Engineering Dept. of University of Thessaly

1. Georgiou C., (2015) «Experimental study of turbulent buoyant jet within a still fluid» January 2016.
2. Riris I., (2015). «Study of the velocity of turbulent buoyant jet within a moving fluid in an open channel with free surface», January 2016.
3. Theodosiou I., (2016) «Measurements and instruments in Hydraulic Research», October 2016.
4. Kiritsis A., (2016) «Measurements and instruments in Hydraulic Research», October 2016.
5. Lallas A., (2017) «Study of the behaviour of gravity currents in lock-exchange experiments», October 2017.
6. Vardakostas S. (2019), «Gravity currents with large density in valleys», October 2019.
7. Kementsetsidis S. (2019) «Gravity currents with large density in valleys», October 2019.
8. Loukas I., (2020) «Study of hydraulic jump characteristics in an open channel», February 2020.
9. Droulias I., (2020) «Study of hydraulic jump characteristics in an open channel», February 2020.
10. Thanos, N. (2020) «The impact of vegetation in the study of gravity currents with large salinity in a valley», February 2020.
11. Tsintsifas L., (2020) «The impact of vegetation in the study of gravity currents with large salinity in a valley», February 2020.
12. Vasileiou C., (2020) «Experimental study of gravel bed in gravity currents with large salinity», February 2020.
13. Sagiannis K., (2020) «Experimental study of gravel bed in gravity currents with large salinity», February 2020.
14. Anifantakis G., (2021) «Rare earths and applications in the modern economy», March 2021.
15. Nasiopoulos E., (2021) «Calculation of depth flow in a river by applying novel numerical methods», in progress.
16. Koziakas K., (2021) «Water hammer in a supply network. Computational study and treatment ways», in progress.
17. Livanios G., (2021) «Arrangement of Kalogiannis torrent with the help of HEC-RAS», in progress.
18. Valaris E., (2021) «Calculation of flow characteristics of Xirias torrent with the application of numerical methods», in progress.

16.3. Member of Committee of Diploma Thesis at Civil Engineering Dept. of University of Thessaly

1. Azariadi T., (2014) «Comparative Evaluation of river basin districts management plans in Greece under the water framework directive 2000/60/EC», Supervisor: Kanakoudis V.
2. Michalolias N. (2014) «Study of fluid velocity in a channel with free surface under the existence of vegetation using computational fluid mechanics and application of results in flood protection», Supervisor: Liakopoulos A.
3. Sagia Z., (2015) «Investigation of the impact of groundwater temperature in dimensioning the geothermal open circuit system for domestic use», Supervisor: Kanakoudis V.
4. Mousadis I., (2015) «Evaluation of methods of valuation and recovery of the full cost of water in European Union countries», Supervisor: Kanakoudis V.
5. Karanis I., (2015). «Design of a small hydroelectric project on the Pineios River», Supervisor: Liakopoulos A.
6. Korkana P., (2015). «Optimizing (DMAs) formation in drinking water networks using genetic algorithms and developing prototype algorithms», Supervisor: Kanakoudis V.
7. Tagas E., (2016). «Dairy Industry Wastewater Treatment with Constructed Wetlands». Supervisor: Laspidou C.
8. Kravvari A., (2017) «Pressure management techniques impact assessment in urban water distribution systems regarding the quality of the water supplied (water age, chlorine residual concentration). The case of city of Kos». Supervisor: Kanakoudis V.
9. Kokosis N., (2017) «Life cycle assessment of small and decentralized wastewater treatment plants». Supervisor: Laspidou C.
10. Vasilopoulos I., (2017) «Energy potential assessment of the water distribution network in Kozani, installation of micro-hydropower turbines for energy recovery and pressure management». Supervisor: Kanakoudis V.
11. Dalakouras A., (2017) «Impact of the faults of the water supply network of DEYA Larissa with the use of ARC MAP and study of the spatial and temporal distribution change», Supervisor: Kanakoudis V.
12. Romanas I., (2017) «Impact of the faults of the water supply network of DEYA Larissa with the use of ARC MAP and study of the spatial and temporal distribution change», Supervisor: Kanakoudis V.
13. Floros V., (2017) «Impact of the faults of the water supply network of DEYA Larissa with the use of ARC MAP and study of the spatial and temporal distribution change», Supervisor: Kanakoudis V.

14. Xipnitos Y., (2018) «Study on the overall management of a water distribution network and comparative research on the modernization of the DEYA», Supervisor: Kanakoudis V.
15. Toliopoulos A., (2018) «Investigation of PAT mechanism installation in water distribution networks for pressure adjustment and energy recovery. Proposals for experimental devices», Supervisor: Kanakoudis V.
16. Volanis E., (2018) «Hydraulic water network simulation - Pump energy efficiency and influence of its operation on network pressures», Supervisor: Kanakoudis V.
17. Zacharioudakis A. (2018) «Hydraulic water network simulation - Pump energy efficiency and influence of its operation on network pressures», Supervisor: Kanakoudis V.
18. Tsimopoulou D, (2019) «The results of the application of techniques for reducing the age of the water of the nodes based on the age of the network pipelines - The water supply network of the city of Kozani», Supervisor: Kanakoudis V.
19. Tsiokanos A., (2019) «Water supply networks and quality: European and National Institutional framework, contemporary Greek reality and the case study of Igoumenitsa», Supervisor: Kanakoudis V.
20. Tabakis I., (2020) «Cleaning of water from heavy metals. Conventional and advanced methods», Supervisor: Karakasidis T.
21. Maraki D., (2020) «Development of a hydraulic model in the water supply network of Kydonia Chania - Capture of water demand fluctuations between winter and summer season-Water pricing», Supervisor: Kanakoudis V.
22. Hatzibalis I., (2020) «Analysis of spatio-temporal correlations in a field of turbulent flow velocities», Supervisor: Karakasidis T.
23. Katsaggelos D., (2020) «Water footprint, virtual water and carbon footprint. Meanings, calculation tools and application scenarios», Supervisor: Kanakoudis V.
24. Tsitouris K., (2020) «Water footprint, virtual water and carbon footprint. Meanings, calculation tools and application scenarios», Supervisor: Kanakoudis V.

17. Participation in Organizing Committees of Global Conferences

- **Member** of the organizing committee of the Conference «Protection and Restoration of the Environment XII International Conference», June 29–July 4 2014, Skiahtos, Greece. (Co-organization: Department of Civil engineering University of Thessaly, Department of Planning and Regional Development University of Thessaly, Stevens Institute of Technology, USA).
- **Vice Chairman** of the Conference «2nd EWaS International Conference: “Efficient & Sustainable Water Systems Management toward Worth Living Development”», June 1–4 2016,

Chania, Greece. (Co-organization: Department of Civil engineering University of Thessaly & School of Environmental Engineering, Technical University of Crete).

- **Vice Chairman** of the Conference «3rd EWaS International Conference: “Insights on Water-Energy-Food Nexus”», June 27–30 2018, Lefkada Island, Greece. (Organization: Department of Civil engineering University of Thessaly).
- **Vice Chairman** of the Conference «4th EWaS International Conference: “Valuing the Water, Carbon, Ecological Footprints of Human Activities”», 24-27 June 2020, Volos, Greece. (Organization: Department of Civil engineering University of Thessaly).
- **Vice Chairman** of the Conference «5th EWaS International Conference: «Water Security and Safety Management: emerging threats or new challenges? Moving from Therapy and Restoration to Prognosis and Prevention», 12-15 July 2022, Naples, Italy (Co-organization: Department of Civil engineering University of Thessaly & University of Naples Federico II, Civil, Architectural and Environmental Engineering Dept.).

18. Keynote Speeches (Invited Speaker)

- **Keramaris E.** «Modern Methods of Water Velocity Measurements», Workshop for World Water Day, 22/03/2018, Mouzaki Karditsa 2018.

19. Additional Professional Experience

- From 08/03/1995 until 31/12/2014 : Individual Civil Engineer
- From 01/01/2004 until 31/12/2013 : External Partner of Company «Hydroactotechniki»
- From 07/06/2007 until 31/12/2009 : External Partner of Company «YETOS»

20. General

- Member of Technical Chamber of Greece since 1995.
- External Research Associate of Department of Civil Engineering (2002-2014).
- Member of Hellenic Hydrotechnical Association since 2007.