

## Curriculum Vitae of Principal Investigator

<b>Personal Information Dr. Mike G. Spiliotis</b>	
<b>Born, date and place</b>	1976 , Korinthos Korinthias, Greece
Nationality	Greek
Current position	<b>Assistant Professor. Department of Civil Engineering, School of Engineering, Democritus University of Thrace, V. Sofias 12, GR-67100 Xanthi, Greece</b>

<b>Education</b>	
Postdoc	<b>Adaptive Water resources Management in an uncertain Environment</b> , National and Technical University of Athens (NTUA) with the cooperation of Technical University of Madrid (UPM)
PhD	<b>Fuzzy systemic theory applied on the strategic water resources management</b> , National and Technical University of Athens (NTUA), School of Rural & Surveying Engineering (2007)
MSc	<b>Science and Technology of Water Resources</b> , National University of Athens, School of Civil Engineering (2002)
Diploma	<b>Diploma in Civil Engineering</b> , Democritus University of Thrace, Department of Water Resources and Environmental Engineering (1999)

<b>Academic Scholarships &amp; Awards</b>	
Greek State Scholarship Foundation (2009-2010)	
His PhD was funded by the Project (68/0715) in the framework of “HRAKLEITOS” programme which is co-funded by the European Social Fund and Greek National Resources.	
Postdoc scholarship (2012-2013). The Postdoc project was entitled: “Adaptive Water resources Management in an uncertain Environment” which was co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Programme "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: «Supporting Postdoctoral Researchers». The Postdoc is based on the cooperation between the NTUA and the Department of Hydraulic and Energy Engineering, Technical University of Madrid.	

<b>Professional experience</b>	
2017-now	Assistant Professor. Department of Civil Engineering, School of Engineering, Democritus University of Thrace. <i>Graduate courses:</i> River Engineering, Water Resources Management, Open channel flow, hydrology, Irrigation and drainage systems, Applied hydraulics. <i>Post-graduate courses:</i> Hybrid models (fuzzy and statistical) in Hydraulics, Time series analysis
2014-2017	Lecturer. Department of Civil Engineering, School of Engineering, Democritus University of Thrace. <i>Graduate courses:</i> River Engineering, Water Resources Management, Open channel flow, hydrology, Irrigation and drainage systems, Applied hydraulics. <i>Post-graduate courses:</i> Hybrid models (fuzzy and statistical) in Hydraulics, Time series analysis

2014	Adjacent Lecturer in urban hydraulics and water irrigation network in School of Pedagogical and Technological Education (Department of Civil Engineering Educators)
2012-2013	Postdoc scholarship. The Postdoc entitled: -Adaptive Water resources Management in an uncertain Environment" which is co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Programme "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: «Supporting Postdoctoral Researchers». The Postdoc is based on the cooperation between the NTUA and the Department of Hydraulic and Energy Engineering, Technical University of Madrid
2011	Adjacent Lecturer in Technical Hydrology (P.D. 407/80) in Aristotle University (Faculty of Rural and Surveying Engineering)
2010-2011	Technological Educational Institute of Piraeus, Research fellow for the course of “Hydraulics” and the corresponding hydraulic experiments for the academic year 2010 – 2011
2009	Researcher. Centre for the Assessment of Natural Hazards and Proactive Planning, School of Rural and Surveying Engineering, National Technical University of Athens
2008-2009	Adjacent lecturer in Water Supply and Urban Sewer Networks (P.D. 407/80) in Technical University of Crete (Faculty of Environmental Engineering)
2002 - 2008	Assistant teaching in undergraduate courses in School of Rural and Surveying Engineering, National Technical University of Athens

#### **Member of Scientific Societies**

- European Water Resources Association (EWRA)
- Member of American Society of Civil Engineers
- Greek Committee of Water Resources Management
- Greek Hydrotechnical Union
- Technical Chamber of Greek

#### **Areas of specialization**

The area of specialization includes:

- Fuzzy Sets and Systems in Water Support System
- Drought Analysis and Mitigation Measures Formulation
- Floods and Design of Environmentally Acceptable Streams,
- Multicriteria Methods applied in Water Resources Management
- Optimization Techniques in Water Hydraulic Systems
- Uncertainty Assessment in Hydrology
- Water Related Risk and Hazards
- Fuzzy Data-Driven Model
- Fuzzy logic and multicriteria analysis
- Hydroinformatics
- Applied Hydraulics and Hydraulic Works
- Water Distribution Network Analysis, Design and Management
- Irrigation and Drainage Systems

- Water Resources, Planning and Management
- Artificial Thinking in Hydrological and Decision Models in Hydraulic System

### Languages

Native Greek, English, Spanish

### Books and Educational notes

- 1.1 Tsakiris G. and Spiliotis M. 2010. Systems of Closed Pressured Networks, Chapter 2 in «Hydraulic Works, Design and Management, Volume I: Urban Hydraulic Works», G.Tsakiris (ed) Symmetria Publications, pp 37- 110 (in Greek).
- 1.2 Tsakiris G. and Spiliotis M. 2010. Urban Water Distribution Network Analysis, Chapter 8 in «Hydraulic Works, Design and Management, Volume I: Urban Hydraulic Works», G.Tsakiris (ed) Symmetria Publications, pp 317 -442 (in Greek).
- 1.3 Spiliotis M., 2009. Design of Urban Sewer Networks, Technical University of Crete (course notes - in Greek).
- 1.4 Spiliotis M., 2005. Urban Hydraulic Works, (course notes- in Greek).National Technical University of Athens
- 1.5 Spiliotis M., 2014-. Academic presentations, available at eclass.
- 1.6 Elger D. F., Williams B. C., Crowe C. T., Roberson J. A., 2015. Engineering Fluid Mechanics (Μηχανική Ρευστών για Μηχανικούς (10η Έκδοση), Εκδόσεις Τζιόλα), in Greek. **Greek editing by M.Spiliotis**
- 1.7 Spiliotis M., Hrissanthou V. 2018. Fuzzy and crisp regression analysis between sediment transport rates and stream discharge in the case of two basins in northeastern Greece. In Regression Analysis: Introduction, Applications and Theory; Nova Science Publishers: New York, NY, USA, 2018..
- 1.8 Spiliotis M., Hrissanthou V. 2018. Regression Analysis: Introduction, Applications and Theory; Nova Science Publishers: New York, NY, USA, 2018. (Editing).

### Publications in international academic journals with full review

- 2.1 Tsakiris G. and Spiliotis M., 2004. Fuzzy linear programming for problems of water allocation under uncertainty. *European Water* 7/8: 25-37.
- 2.2 Tsakiris G. and Spiliotis M., 2006. Cropping pattern planning under water supply from multiple sources. *Irrigation and Drainage Systems* (Springer) 20(1): 57-68.
- 2.3 Tsakiris G., Tigkas D. and Spiliotis M., 2006. Assessment of interconnection between two adjacent watersheds using deterministic and fuzzy approaches. *European Water* 15/ 16: 15- 22.
- 2.4 Spiliotis M. and Tsakiris G., 2007. Minimum Cost Irrigation Network Design Using Interactive Fuzzy Integer Programming. *J. Irrig. and Drain. Eng., ASCE*, 133: 242 –248.
- 2.5 Tsakiris G., Spiliotis M., Paritsis S. and Alexakis D, 2009. Assessing the Water Potential of Karstic Saline Springs by applying a fuzzy approach: The case of Almyros (Heraklion – Crete). *Desalination* (Elsevier) 237: 54–64.
- 2.6 Tsakiris G., Spiliotis M., 2011. Planning Against Long Term Water Scarcity: A Fuzzy Multicriteria Approach. *Water Resources Management* 25 (4): 1103-1129.
- 2.7 Vangelis H., Spiliotis M., Tsakiris G., 2010. Drought Severity Assessment Based on Bivariate Probability Analysis. *Water Resources Management* 25 (1): 357-371.

2. 8 Spiliotis M., Tsakiris G., 2011. Water Distribution System Analysis: Newton-Raphson Method Revisited. *Journal of Hydraulic Engineering* 137 (8): 852-855.
2. 9 Gotsis D., Spiliotis M., Giakoumakis S., 2012. Reuse of drainage water in irrigation with the aid of 0-1 linear programming. *Irrigation and Drainage Systems* 25 (4) : 385-394.
2. 10 Spiliotis M., Tsakiris G., 2012. Water distribution network analysis under fuzzy demands. *Civil Engineering and Environmental Systems* 29 (2): 107-122.
2. 11 Spiliotis M. and Tsakiris G., 2012. **Closure** to “Water Distribution System Analysis: Newton-Raphson Method Revisited” by M. Spiliotis and G. Tsakiris.” *J. Hydraul. Eng.*, 138(9), 824–826.
2. 12 Tsakiris G. and Spiliotis M., 2012. Applying resilience indices for assessing the reliability of water distribution systems. *Water Utility Journal* 3: 19 - 27.
2. 13 Yannopoulos S., Spiliotis M., 2013. Water Distribution System Reliability Based on Minimum Cut - Set Approach and the Hydraulic Availability. *Water Resources Management* 27 (6): 1821-1836.
2. 14 Tsakiris G., Spiliotis M. 2013. Dam- Breach Hydrograph Modelling: An Innovative Semi-Analytical Approach. *Water Resources Management* 27 (6): 1751-1762.
2. 15 Spiliotis M. and Tsakiris G., 2013: **Closure** (new) on “Water distribution system analysis: The Newton – Raphson method revisited». *Journal of Hydraulic Engineering, American Society of Civil Engineers (ASCE)* 139(8): 918-919.
2. 16 Tsakiris G. and Spiliotis M., 2014. Embankment dam break: Uncertainty of outflow based on fuzzy representation of breach formation parameters. *Journal of Intelligent and Fuzzy Systems* 27(5): 2365-2378.
2. 17 Tsakiris G., Spiliotis M., 2014. A Newton–Raphson analysis of urban water systems based on nodal head-driven outflow. *European Journal of Environmental and Civil Engineering* 18(8) (Taylor & Francis): 882-896.
2. 18 Spiliotis M., 2014. A Particle Swarm Optimization (PSO) heuristic for water distribution system analysis. *Water Utility Journal* 8: 47-56, 2014.
2. 19 Spiliotis M., Martín-Carrasco F., Garrote L., 2015. A Fuzzy Multicriteria Categorization of Water Scarcity in Complex Water Resources Systems. *Water Resources Management* 29 (2), 521-539.
2. 20 Tsakiris G., Spiliotis M., Vangelis H., Tsakiris P., 2015. Evaluation of measures for combating water shortage based on beneficial and constraining criteria. *Water Resources Management* 29 (2): 505-520.
2. 21 Spiliotis M., Garrote L., Chavez-Jimenez A., 2015. Reorganization of water demand under changing conditions with possibilistic programming. *Journal of Hydroinformatics*, 17 (2): 239-259 (doi:10.2166/hydro.2014.008).
2. 22 Spiliotis M., Bellos C., 2015. Flooding risk assessment in mountain rivers. *European Water*, 51: 33-49.
2. 23 Kitsikoudis V., Spiliotis M. and Hrisanthou V., 2016. "Fuzzy regression analysis for sediment incipient motion under turbulent flow conditions", *Environmental Processes*, 3(3): 663-679.
2. 24 Spiliotis M., Mediero L., Garrote L., 2016. Optimization of Hedging Rules for Reservoir Operation During Droughts Based on Particle Swarm Optimization. *Water Resources Management*, 30(15): 5759–5778.
2. 25 Tsakiris G. and Spiliotis M., 2016. Uncertainty in the Analysis of Water Conveyance Systems. *Procedia Engineering* 162: 340-348
2. 26 Tsakiris G. and Spiliotis M., 2017. Uncertainty in the analysis of urban water supply and distribution systems. *Journal of Hydroinformatics*: 19(6): 823-837
2. 27 Spiliotis M. and Garrote L., 2017. Estimation of the Muskingum routing coefficients by using fuzzy regression. *European Water* 57: 133-140.
2. 28 Spiliotis M., Kitsikoudis V. and Hrisanthou V., 2017. Assessment of bedload transport in gravel-bed rivers with a new fuzzy adaptive regression. *European Water* 57: 237-244

2. 29 Spiliotis M. and Tsakiris G., 2017. Uncertainty in the design of water distribution systems. *European Water* 58: 449-456.
2. 30 Spiliotis M., Papadopoulos B.K., 2018. A hybrid fuzzy probabilistic assessment of the extreme hydrological events. *AIP Conference Proceedings* 1978,290011.
2. 31 Kazakis N., Spiliotis M., Voudouris K., Pliakas F.K., Papadopoulos B. 2018. A fuzzy multicriteria categorization of the GALDIT method to assess seawater intrusion vulnerability of coastal aquifers, *Sci Total Environ*, 593-594: 552-566.
2. 32 Spiliotis M., Kitsikoudis V., Kirca O., Hrissanthou V., 2018. Fuzzy threshold for the initiation of sediment motion, *Applied Soft Computing* (72): 312-320.
2. 33 Spiliotis M., Papadopoulos Ch., Angelidis P., Papadopoulos B., 2018. Hybrid Fuzzy—Probabilistic Analysis and Classification of the Hydrological Drought. *Proceedings 2018*, 2(11), 643; <https://doi.org/10.3390/proceedings2110643> (this work was selected to be published in the journal of *Desalination and water treatment* after a new review and with 50% extension).
2. 34 Spiliotis M., Skoulikaris Ch. (2018) A Hybrid Multicriteria 0/1 Programming Methodology for Prioritizing the Measures of River Basin Management Plans *Proceedings 2*: 624; <https://doi.org/10.3390/proceedings2110624> (this work was selected to be published in the journal of *Desalination and water treatment* after a new review and with 50% extension)..
2. 35 Spiliotis M., Angelidis P., Papadopoulos B., 2019. A hybrid probabilistic bi-sector fuzzy regression based methodology for normal distributed hydrological variable. *Evolving Systems*. [doi.org/10.1007/s1253](https://doi.org/10.1007/s1253).
2. 36 Spiliotis M., Skoulikaris Ch., 2019. A fuzzy AHP-outranking framework for selecting measures of river basin management plans. *Desalination and water treatment* 167:398–411.
2. 37 Papadopoulos Ch., Spiliotis M., Angelidis P., Papadopoulos B., 2019. A hybrid fuzzy frequency factor based methodology for analyzing the hydrological drought. *Desalination and water treatment* 167:385–397.
2. 38 Spiliotis M., Garrote Luis., 2019. Unit Hydrograph Identification based on Fuzzy Regression Analysis (under review)

#### Articles in Conferences with full review

3. 1 Tsakiris G. and Spiliotis M., 2002. Fuzzy Allocation based on Fuzzy Objective Function and Fuzzy Constraints. 5th International Conference “*Water Resources Management in the era of transition*”, Athens, 4-8 September 2002: 252 – 267 (oral presentation).
3. 2 Tsakiris G. and Spiliotis M., 2004. Multicriteria Ranking of Water Development Scenaria using a Fuzzy Rule Based System. *Proceedings of the EWRA Symposium on Water Resources Management “Risks and challenges for the 21th century Transition”*, Izmir, 2-4 September 2004: 825 – 834 (oral presentation).
3. 3 Spiliotis M. and Tsakiris G., 2005. Performance Indices for the Assessment of Deficit Irrigation Systems with the Assistance of Fuzzy Set Theory. (Ορθολογικός προγραμματισμός ελλειμματικών αρδεύσεων με την χρήση της ασαφούς λογικής). 5<sup>ο</sup> Εθνικό Συνέδριο ΕΕΔΥΠ, «Ολοκληρωμένη Διαχείριση Υδατικών Πόρων με βάση τη λεκάνη απορροής», Ξάνθη, 6-9 Απριλίου (in Greek): 413- 420 (oral presentation).
3. 4 Tsakiris G., Spiliotis M. and Tigkas D., 2005. Investigation of the interconnection of two adjacent watersheds through conceptual deterministic and fuzzy regression approaches. 6th International Conference, “*Sharing a common vision of our water resources*”, European Water Resources Association, Menton, France, 7-10 September, 2005 (oral presentation).
3. 5 Spiliotis M. and Tsakiris G., 2006. Min Cost Irrigation Network Design Using Interactive Fuzzy Integer Programming (Σχεδιασμός αρδευτικού δικτύου υπό πίεση με τη χρήση του ασαφούς ακέραιου προγραμματισμού.) 10<sup>ο</sup> Συνέδριο Ελληνικής Υδροτεχνικής Ένωσης, «*Διαχείριση υδατικών πόρων και προστασία περιβάλλοντος – σύγχρονες θεωρήσεις, προβλήματα και προοπτικές*», Ξάνθη, 13 – 16 Δεκέμβρη (in Greek): 793- 800 (oral presentation).

3. 6 Tsakiris G., Spiliotis M. and Paritsis S., 2007. Assessing the Water Potential of Karstic Saline Springs: The case of Almyros (Heraklio-Crete). EWRA Symposium, "*Water Resources Management: New Approaches and Technologies*", European Water Resources Association, Chania, Crete-Greece, 14-16 June 2007: 185 - 194 (oral presentation).
3. 7 Tsakiris G. and Spiliotis M., 2009. A Multicriteria Preparedness Planning for Facing Water Scarcity. EWRA 7th International Conference on "*Water Resources Conservation and Risk Reduction Under Climatic Instability*", Limassol, Cyprus, 25 - 27 June 2009 (oral presentation).
3. 8 Tsakiris G. and Spiliotis M. 2011: Dam – Breach flood Modelling: an innovative semi-analytical approach. VI International Symposium - EWRA 2011 Water Engineering and Management in a Changing Environment June 29 - July 2, 2011, Catania, Italy, (oral presentation).
3. 9 Yannopoulos St. and Spiliotis M., 2011. Water distribution system reliability based on minimum cut-set approach and the hydraulic reliability. VI International Symposium - EWRA 2011, "*Water Engineering and Management in a Changing Environment*", June 29 - July 2, 2011, Catania, Italy, (oral presentation).
3. 10 Spiliotis M., 2012. An Hybrid Method for Selecting Multiple Water Actions in Water Resources Management (Μια Υβριδική Μέθοδος για την Επιλογή Πολλαπλών Δράσεων Στη Διαχείριση Υδατικών Πόρων). 2ο κοινό συνέδριο EYE-ΕΕΔΥΠ. 11 - 13 Οκτωβρίου 2012, Πάτρα, "*Ολοκληρωμένη Διαχείριση Υδατικών Πόρων προς την Αειφόρο Ανάπτυξη*" (in Greek): 1262 -1273 (oral presentation).
3. 11 Yannopoulos St, Spanothymniou M, Spiliotis M., 2012. Evaluation of the Relative Importance of the Basic Parameters of Water Distribution Networks – Investigation of Technical Specifications in Greece (Αξιολόγηση της Σχετικής Σημασίας των Βασικών Παραμέτρων των Κλειστών υπό Πίεση Δικτύων Ύδρευσης Διερεύνηση Των Ισχυουσών Προδιαγραφών Στην Ελλάδα). 2ο κοινό συνέδριο EYE-ΕΕΔΥΠ. 11 - 13 Οκτωβρίου 2012, Πάτρα, "*Ολοκληρωμένη Διαχείριση Υδατικών Πόρων προς την Αειφόρο Ανάπτυξη*" (in Greek): 1134-1147 (oral presentation).
3. 12 Tsakiris G., Spiliotis M, Vangelis H., Tsakiris P., 2013. Towards a Comprehensive Evaluation of Measures for Combating Water Scarcity (221-232). 8th INTERNATIONAL CONFERENCE OF EWRA, "*Water Resources Management in an Interdisciplinary and Changing Context*", Porto, Portugal, 26th-29th June 2013 (oral presentation).
3. 13 Spiliotis M., Martin-Carrasco F., Garrote L. A., 2013. Fuzzy Multicriteria Categorization of Water Scarcity in Complex Water Resources Systems (955-966). 8th INTERNATIONAL CONFERENCE OF EWRA, "*Water Resources Management in an Interdisciplinary and Changing Context*", Porto, Portugal, 26th-29th June 2013 (oral presentation)..
3. 14 Kitsikoudis V, Spiliotis M, Hrissanthou V., 2015. Reconsideration of sediment incipient motion criterion: a fuzzy set approach. In EWRA 9th WORLD CONGRESS, "Water Resources Management in a Changing World: Challenges and Opportunities", Istanbul, 10-13 June 2015 (oral presentation).
3. 15 Spiliotis M., Mediero L., Garrote L., 2015. Optimization of hedging rules for reservoir operation during droughts based on particle swarm optimization. In EWRA 9th WORLD CONGRESS, "Water Resources Management in a Changing World: Challenges and Opportunities", Istanbul, 10-13 June 2015 (oral presentation).
3. 16 Spiliotis M., Bellos C., 2015. Flooding risk assessment in mountain rivers. In EWRA 9th WORLD CONGRESS, "Water Resources Management in a Changing World: Challenges and Opportunities", Istanbul, 10-13 June 2015 (oral presentation).
3. 17 Spiliotis M., Iglesias A., Garrote L., 2015. Informing drought management: a new approach to estimate vulnerability levels in water supply systems. In EWRA 9th WORLD CONGRESS, "Water Resources Management in a Changing World: Challenges and Opportunities", Istanbul, 10-13 June 2015 (oral presentation).
3. 18 Spiliotis M., 2015.. Performance Indices of Urban Water Systems based on Pressure Dependent Nodal Consumption (Δείκτες Αξιολόγησης Αστικών Συστημάτων Διανομής Νερού σε Υδραυλικά Μοντέλα Καθοδηγούμενα από την Υδραυλική Γραμμή). Στην επιστημονική

- ημερίδα (προς τιμή των αφυπηρετούντων μελών ΔΕΠ του Τμήματος το ακαδημαϊκό έτος 2014-2015): "Νέες Εξελίξεις στην Έρευνα του Πολιτικού Μηχανικού», Τμήμα Πολιτικών Μηχανικών Δ.Π.Θ., 15 Μαΐου, Ξάνθη (in Greek) (oral presentation).
3. 19 Spiliotis M., Angelidis P., Papadopoulos B., 2015. fuzzy hybrid determination of the probability distribution function for hydrologic variables. Common Congress EYE-EEΔΥΠ-EYΣ. *"Integrated water resources management in the new era"*, Athens 10-12 December (in Greek): 149-156 (oral presentation).
  3. 20 Tsakiris G. and Spiliotis M., 2016. Uncertainty in the analysis of water conveyance systems. In 2nd EWaS International Conference. *"Efficient & Sustainable Water Systems Management toward Worth Living Development"*, 1-4 June, Chania (oral presentation). *This article was selected to be published in the journal of Procedia Engineering (elsevier) in condition of a new review.*
  3. 21 Spiliotis M., Angelidis P. & Papadopoulos P., 2016. Assessment of annual hydrological drought based on fuzzy estimators. 4th IAHR Europe Congress, *"Sustainable hydraulics in the era of global change"*, 27-29 July, Liege, Belgium (oral presentation).
  3. 22 Spiliotis M., Kitsikoudis V. & Hrissanthou V., 2016. Fuzzy regression analysis between sediment transport rates and stream discharge in the case of two basins in northeastern Greece. 4th IAHR Europe Congress, *"Sustainable hydraulics in the era of global change"*, 27-29 July, Liege, Belgium (oral presentation).
  3. 23 Spiliotis M, Angelidis P, Papadopoulos B. 2018. A Hybrid Fuzzy Regression-Based Methodology for Normal Distribution (Case Study: Cumulative Annual Precipitation). In Proceedings of the 14th IFIP International Conference on Artificial Intelligence Applications and Innovations (AIAI), Rhodes, Greece, May 2018, Iliadis, L., Maglogiannis, I., Plagianakos, V., Eds.; Springer International Publishing: Berlin, Germany, 2018; pp. 568–579.
  3. 24 Spiliotis M., Kaffas K. and Hrissanthou V., 2018. Total Sediment Concentration as a Fuzzy Curve based on the unit Stream Power Theory of Yang. In 5th IAHR EUROPE CONGRESS, New Challenges in Hydraulic Research and Engineering, 12 – 14 June, 2018, Trento, Italy, Editors Armanini A. and Nucci E (doi: 10.3850/978-981-11-2731-1\_160-cd)
  3. 25 M. Spiliotis M., Sordo-Word A and Garrote L., 2018. Estimation of the Muskingum Routing Coefficients Including Lateral inflow by using Fuzzy Linear Regression. In 5th IAHR EUROPE CONGRESS, New Challenges. In Hydraulic Research and Engineering, 12 – 14 June, 2018, Trento, Italy, Editors Armanini A. and Nucci E (doi: 10.3850/978-981-11-2731-1\_390-cd).
  3. 26 Spiliotis M., Papadopoulos Ch., Angelidis P., Papadopoulos B., 2018. Hybrid fuzzy-probabilistic analysis and classification of the hydrological drought. In 3rd EWaS International Conference 7-30 JUNE, 2018, Lefkada island, Greece. This article was selected to be published in the journal of Proceedings (MDPI) with a new review.
  3. 27 Spiliotis M, Skoulikaris Ch., a hybrid multicriteria 0/1. Programming methodology for prioritizing the measures of river basin management plans. In 3rd EWaS International Conference 7-30 JUNE, 2018, Lefkada island, Greece. . This article was selected to be published in the journal of Proceedings (MDPI) with a new review.
  3. 28 Panagiotou L., Spiliotis M., Kagalou I., 2019. Evaluation of Management Strategies under the WFD: Application of Fuzzy ELECTRE Method. In 11th World Congress on Water Resources and Environment (EWRA 2019) "Managing Water Resources for a Sustainable Future" Madrid, Spain, 25-29 June 2019 (oral presentation). This article is selected to be published in the journal of Water Resources Management with 50% extension.
  3. 29 Saridakis M., Spiliotis M., Hrissanthou V., 2019. Assessment of Bedload Transport in Sand - Gravel Bed Rivers by Using Nonlinear Fuzzy Regression. In 11th World Congress on Water Resources and Environment (EWRA 2019), "Managing Water Resources for a Sustainable Future", Madrid, Spain, 25-29 June 2019 (oral presentation).
  3. 30 Papadopoulos Ch., Spiliotis M., Gkiougkis I., Pliakas F., Papadopoulos B., 2019. Fuzzy Regression for assessment of drought effects on groundwater level in a coastal unconfined aquifer. In 11th World Congress on Water Resources and Environment (EWRA 2019),

- “Managing Water Resources for a Sustainable Future”, Madrid, Spain, 25-29 June 2019 (oral presentation).
3. 31 Kaffas K., Righetti M., Avesani D., Spiliotis M., Hrissanthou V., 2019. Coupling CFSv2 with ArcSWAT for seasonal hydrological forecasting in a Mediterranean basin. In 11th World Congress on Water Resources and Environment (EWRA 2019), “Managing Water Resources for a Sustainable Future”, Madrid, Spain, 25-29 June 2019 (oral presentation).
  3. 32 Spiliotis M., Iglesias A., Garrote L., 2019. A Meta-multicriteria Approach to Estimate Drought Vulnerability Based on Fuzzy Pattern Recognition. In: Macintyre J., Iliadis L., Maglogiannis I., Jayne C. (Eds) Engineering Applications of Neural Networks (EANN) 2019. Communications in Computer and Information Science, vol 1000. Springer, Cham, 349-360. DOI: [https://doi.org/10.1007/978-3-030-20257-6\\_29](https://doi.org/10.1007/978-3-030-20257-6_29).
  3. 33 Spiliotis M., Papadopoulos Ch. Aggelidis P., Papadopoulos B., 2019 "Fuzzy estimators to classify the hydrological drought, 14ο συνέδριο ελληνικής υδροτεχνικής ένωσης, (E.Y.E.) (14th Conference of the Hellenic Hydrotechnical Association), Πρόεδ. Av. Καθ. N. Θεοδοσίου, Αντιπρόεδ. A. Ψιλοβίκος, Γ.Γ. Δ. Καρπούζος, Βόλος, 16-17/05/2019 (oral presentation).
  3. 34 Kaffas K., Saridakis M., Tsangaratos P., Spiliotis M., Hrissanthou V. 2019. Application of Yang formula for calculating total sediment transport rate with fuzzy regression. 14ο συνέδριο ελληνικής υδροτεχνικής ένωσης, (E.Y.E.) (14th Conference of the Hellenic Hydrotechnical Association), Πρόεδ. Av. Καθ. N. Θεοδοσίου, Αντιπρόεδ. A. Ψιλοβίκος, Γ.Γ. Δ. Καρπούζος, Βόλος, 16-17/05/2019 (oral presentation)..
  3. 35 Panagiotou L., Spiliotis M., Latinopoulos D., Kagalou I. 2019 Evaluation of management options for implementing water framework directive: application of fuzzy TOPSIS method.. 14ο συνέδριο ελληνικής υδροτεχνικής ένωσης, (E.Y.E.) (14th Conference of the Hellenic Hydrotechnical Association), Πρόεδ. Av. Καθ. N. Θεοδοσίου, Αντιπρόεδ. A. Ψιλοβίκος, Γ.Γ. Δ. Καρπούζος, Βόλος, 16-17/05/2019 (oral presentation)..
  3. 36 Papadopoulos Ch., Gkiougkis I., Spiliotis M., Pliakas F., Papadopoulos B., 2019. Fuzzy Relation Between The RD<sub>ist</sub> Index And The Water Table Of A Coastal Aquifer of Nestos Delta", Greece 16th International Conference on Environmental Science and Technology (CEST2019), Global NEST, Conference Chairmen Assoc. Prof. D.F. Lekkas, Prof. V. Belgiorno, N. Voulvoulis, Rhodes, Greece, 4-7/09/2019 (oral presentation).

**Citation:** h-index is equal to 11 (according to Scopus).

289 total citations by 237 documents, h-index: 11 (Scopus)

According to Google Scholar: 511 citations, h-index is equal to 15.

#### **List of main funded projects as Coordinator and Partner**

- Project 68/0715 in the framework of “HRAKLEITOS” programme, co-funded by the European Social Fund and Greek National Resources.
- Postdoc scholarship 2012-2013. The Postdoc project was entitled: “Adaptive Water Resources Management in an uncertain Environment” and was co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Programme "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: «Supporting Postdoctoral Researchers». The Postdoc is based on the cooperation between the NTUA and the Department of Hydraulic and Energy Engineering, Technical University of Madrid.
- “Water Resources Management, research and teaching”. Project funded by the Greek Unified Fund of Independent Employees (in Greek: ETAA-ΤΣΜΕΔΕ), 2014-now.
- Supervisor in the project which is co-financed by Greece and the European Union (European Social Fund- ESF) through the Operational Programme «Human Resources Development, Education and Lifelong Learning» in the context of the project “Strengthening Human Resources



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