



**Aristotle University of Thessaloniki**  
**Faculty of Agriculture, Forestry and**  
**Natural Environment**  
**School of Agriculture**



**Department of Hydraulics, Soil Science and Agricultural Engineering**  
**Laboratory of General and Agricultural Hydraulics and Land Reclamation**

## **Curriculum Vitae**

***Dr. Pantazis E. Georgiou***  
***Professor***

### **I. PERSONAL INFORMATION**

**Name :** Pantazis E. Georgiou

**Place and year of birth:** Athens, 23 August 1969

**Sex:** Male

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### **II. CURRENT POSITION**

**Professor** of “**Irrigation Water Management and Irrigation**” in the Aristotle University of Thessaloniki, School of Agriculture, Department of Hydraulics, Soil Science and Agricultural Engineering, Laboratory of General and Agricultural Hydraulics and Land Reclamation.

### **III. HIGHER EDUCATION**

**1987-1992** B.Sc. in Agriculture from Aristotle University of Thessaloniki, Greece.

**1993-1996** M.Sc. in Agricultural Hydraulics and Land Reclamation from Aristotle University of Thessaloniki, Greece.

**1998-2004** Ph.D. in Agricultural Engineering and Water Resources from Aristotle University of Thessaloniki, Greece.

### **IV. EMPLOYMENT**

**1992 – 2007:** Aristotle University of Thessaloniki, School of Agriculture, Department of Hydraulics, Soil Science and Agricultural Engineering, Laboratory of General and Agricultural Hydraulics and Land Reclamation (Researcher - Special Laboratory and Teaching Staff).

**2007-2013:** Lecturer of **Irrigation Water Management and Irrigation** in the Department of Hydraulics, Soil Science and Agricultural Engineering, Faculty of Agriculture at the Aristotle University of Thessaloniki.

**2013-2017:** Assistant Professor of **Irrigation Water Management and Irrigation** in the Department of Hydraulics, Soil Science and Agricultural Engineering, School of Agriculture at the Aristotle University of Thessaloniki.

**2017-2022:** Associate Professor of **Irrigation Water Management and Irrigation** in the Department of Hydraulics, Soil Science and Agricultural Engineering, School of Agriculture at the Aristotle University of Thessaloniki.

**2022-present:** Professor of **Irrigation Water Management and Irrigation** in the Department of Hydraulics, Soil Science and Agricultural Engineering, School of Agriculture at the Aristotle University of Thessaloniki.

## V. PARTICIPATED IN RESEARCH PROGRAMS

1. Drainage improvement within irrigation works using proper spacing of subsurface drains computer aided design and drainage modeling.
2. Investigation on water balance determination for watersheds in Northern Greece.
3. Solution of water problems of the mountainous area of Hortiatiss.
4. Development of a mathematical model for the Axios aquifer.
5. Water resources management of the Olynthios (Chalkidiki) catchment.
6. Water balance determination of the Kokkinolakkas (Chalkidiki), hydrological - hydrogeological catchment.
7. Investigation of surface water diversion from the areas of Mavres Petres and Madem Lakkos mines.
8. Hydrologic determination of floods for the design of antiflood protection structures in Olympias (Chalkidiki) area.
9. Consulting for floods of October 2000 in Olympias (Chalkidiki) region.
10. Detention dam for flood runoff retarding and sediment restraining at Simandra-Portaria (Chalkidiki) stream.
11. Investigation on a dam or/and a small reservoir construction at Havrias river (Pravita Halkidiki area).
12. Development of prototype discharge measuring system in Estuaries of Strymonas.
13. Optimal reservoir operation for irrigation purposes.
14. Water and nitrogen management in paddy-rice fields for water saving and environmental protection.
15. Supplemental research for water development plants in Chalkidiki - Olynthios dam.
16. Climate and climate change at four pilot sites. "Adaptation of forest management to climate change in Greece", LIFE + Environment Policy and Governance 2008.
17. Internship of Graduate Students in Department of Agriculture.
18. Laboratory analysis of soils, plants, irrigation water and fertilizer.
19. Environmental optimization of viticulture using technologies of precision agriculture.
20. Provision of scientific directions related to hydromorphological parameters of lakes in Greece.
21. Improving the knowledge in determining the minimum water level and flow of water bodies.
22. Internship of Aristotle University of Thessaloniki. Subproject 2 - Central Actions for the Internship of Aristotle University of Thessaloniki.
23. Advisory Platform for Small Farms based on Earth Observations.
24. Floating Wetlands for Marine Water Pollution Control in Mediterranean Sea.
25. Training Program for Sustainable Land Management in Egypt.
26. Erasmus + MAYA Project: Master in Agricultural and Hydrological Approaches to a Better Sustainable Development.
27. LIFE GAIA Sense: Innovative Smart Farming Services supporting Circular Economy in Agriculture.
28. Preliminary Measurements on the Hydraulic and Related Soil Characteristics of the SN Park.
29. Floating wetlands for marine water pollution control in Mediterranean Sea.
30. Joint Cross Border Cooperation for Securing Societies Against Natural and Man Made Disasters.
31. Irrigation Smart Management System.
32. Multifunctional systems of constructed wetlands for the agro-livestock industry pollution control (WETinAGRI).
33. Optimization of tobacco cultivation practices for the prevention of pests-diseases and the adaptation to climate change (TOBACCO-OPTI).
34. Targeted agricultural practices for improved fruit setting and reduced olive drop as adaptation of olive tree cultivation to climate change.
35. EWA-BELT Linking East and West African farming systems experience into a BELT of sustainable intensification.

## VI. TEACHING RESPONSIBILITIES

### (A) Undergraduate Courses

1. Meteorology and Climatology
2. Irrigation Principles and Crop Water Requirements
3. Agricultural Hydraulics
4. Pipe Flow and Open Channels Hydraulics
5. Agro technical and Environmental Studies
6. Design and Management of Land Reclamation Works
7. Mathematic
8. Water Resources Management

### (B) Postgraduate Courses

1. Water Resources Management
2. Irrigation and Drainage
3. Surface and Groundwater Hydrology
4. Hydroinformatics

## VII. PUBLICATIONS

### 1. Dissertations

1. **Georgiou, P.E., 1992.** *River and Reservoir Flood Routing*. B.Sc. Dissertation submitted to Aristotle University of Thessaloniki, p. 149.
2. **Georgiou, P.E., 1996.** *Reservoir Sizing by using the Rippl Method with the Historical and the Synthetically Generated Inflows and the Transition Probability Method with the Historical Inflows*. M.Sc. Dissertation submitted to Aristotle University of Thessaloniki, p. 269.
3. **Georgiou, P.E., 2004.** *Optimal Reservoir Operation for Irrigation Purposes*. Ph.D. Dissertation submitted to Aristotle University of Thessaloniki, p. 341.

### 2. Referred Journals

1. **Papamichail, D. and Georgiou, P., 1994.** *Parameter Estimation of Linear and Nonlinear Muskingum Models for River Flood Routing*. Transactions on Ecology and the Environment, 7, 139-146.
2. **Georgiou, P.E. and Papamichail, D.M., 2000.** *Sizing of the Olynthios Reservoir by using Synthetic Series of Monthly Inflows*. Geotechnical Scientific Issues, 11 (I), 2, 148-160.
3. **Papamichail, D.M. and Georgiou, P.E., 2001.** *Seasonal ARIMA Inflow Models for Reservoir Sizing*. Journal of the American Water Resources Association, 37, 4, 877-885.
4. **Papamichail, D.M., Georgiou, P.E. and Karamouzis, D.N., 2001.** *Estimation of Flood Hydrographs for the 7-8 October 2000 High Rainfall in Megali Panagia Chalkidis Area*. Hydrotechnika, 11, 47-60.
5. **Diamantopoulou, M., Papamichail, D. and Georgiou, P., 2005.** *Application of Principal Component Analysis in Identifying a Model for Estimating Annual Runoff in Small Ungauged Catchments*. Data Analysis Bulletin, 5, 114-126.
6. **Georgiou, P.E., Papamichail, D.M. and Vougioukas, S.G., 2006.** *Optimal Irrigation Reservoir Operation and Simultaneous Multi-Crop Cultivation Area Selection Using Simulated Annealing*. Irrigation and Drainage, 55 (2), 129-144.
7. **Diamantopoulou, M.J., Georgiou, P.E. and Papamichail, D.M., 2006.** *Neural Network Models Trained with Kalman Learning Rule for Reservoir Inflow Forecasting*. World Scientific and Engineering Academy and Society, Transactions on Environment and Development, 2, 2, 109-116.
8. **Georgiou, P.E. and Papamichail, D.M., 2006.** *Stochastic Generation of Daily Climate Data and Reference Evapotranspiration Frequency Curves*. Hydrotechnika, 16, 5-20.
9. **Diamantopoulou, M.J., Georgiou, P.E. and Papamichail, D.M., 2006.** *A Time Delay Artificial Neural Network approach for Flow Routing in a River System*. Hydrology and Earth System Sciences Discussions, 3, 2735-2756.

10. **Diamantopoulou, M.J., Georgiou, P.E. and Papamichail, D.M., 2007.** *Performance of Neural Network Models with Kalman Learning Rule for Flow Routing in a River System.* Fresenius Environmental Bulletin, 16 (11b), 1474-1484.
11. **Georgiou, P.E. and Papamichail, D.M., 2008.** *Optimization Model of an Irrigation Reservoir for Water Allocation and Crop Planning under Various Weather Conditions.* Irrigation Science, 26 (6), 487-504.
12. **Antonopoulos, V.Z., Lekakis, E.H. and Georgiou, P.E., 2008.** *Irrigation Scheduling with Integrated Models and the Soil Water Balance Method.* Hydrotechnika, 17, 63-76.
13. **Diamantopoulou, M.J., Georgiou, P.E. and Papamichail, D.M., 2011.** *Performance Evaluation of Artificial Neural Networks in Estimating Reference Evapotranspiration with Minimal Meteorological Data.* Global NEST Journal, 13 (1), 18-27.
14. **Lekakis, E.H., Georgiou P.E., Pavlatou-Ve A. and Antonopoulos, V.Z., 2011.** *Effects of Fixed Partial Root-Zone Drying Irrigation and Soil Texture on Water and Solute Dynamics in Calcareous Soils and Corn Yield.* Agricultural Water Management, 101, 71-80.
15. **Vougioukas, S., Papamichail, D., Georgiou, P.E. and Papadimos, D., 2011.** *River Discharge Monitoring using a Vertically Moving Side-Looking Acoustic Doppler Profiler.* Computers and Electronics in Agriculture, 79, 137-141.
16. **Doulgeris, C., Georgiou, P., Papadimos, D. and Papamichail, D., 2012.** *Ecosystem Approach to Water Resources Management using the MIKE 11 modeling system in the Strymonas River and Lake Kerkini.* Journal of Environmental Management, 94, 132-143.
17. **Paraskevas, C., Georgiou, P., Ilias, A., Panoras, A. and Babajimopoulos, C., 2012.** *Calibration Equations for two Capacitance Water Content Probes in a Lysimeter Field.* International Agrophysics, 26, 285-293.
18. **Paraskevas, C., Georgiou, P., Ilias, A., Panoras, A. and Babajimopoulos, C., 2013.** *Evapotranspiration and Simulation of Soil Water Movement in Small Area Vegetation.* International Agrophysics, 27, 445-453.
19. **Antonopoulos, V.Z., Georgiou, P.E. and Koloutouros, C., 2013.** *Soil Water Dynamic in Cropped and no Cropped Field in Northern Greece using a Dual Permeability Model.* Hydrological Sciences Journal, 58, 1748-1759.
20. **Demertzis, K.A., Papamichail, D.M., Georgiou, P.E., Karamouzis, D.N. and Aschonitis, V.G., 2014.** *Assessment of Rural and highly Seasonal Tourist Activity plus Drought Effects on Reservoir Operation in a semi-arid Region of Greece using the WEAP model.* Water International, 39, 23-34.
21. **Kanakis, P.C., Papamichail, D.M. and Georgiou, P.E., 2014.** *Performance Analysis of On-Demand Pressurized Irrigation Network Designed with Linear and Fuzzy Linear Programming.* Irrigation and Drainage, 63, 451-462.
22. **Tizro, A.T., Ghashghaie, M., Georgiou, P. and Voudouris, K., 2014.** *Time Series Analysis of Water Quality Parameters.* Journal of Applied Research in Water and Wastewater, 1, 43-52.
23. **Antonopoulos, V.Z., Georgiou, P.E. and Antonopoulos, Z.V., 2015.** *Dispersion Coefficient Prediction Using Empirical Models and ANNs.* Environmental Processes, 2, 379-394.
24. **Doulgeris, C., Georgiou, P., Papadimos, D. and Papamichail, D., 2015.** *Water allocation under deficit irrigation using MIKE BASIN model for the mitigation of climate change.* Irrigation Science, 94, 469-482.
25. **Papastamkou, N., Papamichail, D. and Georgiou, P.E., 2016.** *Analysis of methods and the water footprint estimation of crops in the plain of Thessaloniki.* Hydrotechnika, 24, 37-50.
26. **Diamantopoulou, M., Papamichail, D. and Georgiou, P.E., 2016.** *Downscaling outputs of the general circulation models for the prediction of the monthly precipitation in a station by using neural networks.* Hydrotechnika, 24, 59-71.
27. **Kanakis, P., Papamichail, D. and Georgiou, P.E., 2016.** *Ant Colony algorithm for optimization of pressurized irrigation networks.* Hydrotechnika, 24, 85-98.
28. **Doulgeris, C., Georgiou, P., Apostolakis, A., Papadimos, D., Zervas, D., Petriki, O., Bobori, D., Papamichail, D., Antonopoulos, V., Farcas, C., Stålnacke, P., 2017.** *Assessment of the Environmentally Minimum Lake Level Based on Morphological Features.* European Water, 58, 197-202.
29. **Petropoulou, A-S., Karpouzou, D. and Georgiou, P., 2017.** *Optimal Design and On Demand Operational Analysis Using Performance Indicators in a Pumped Irrigation Network.* Water Utility Journal, 16, 57-66.
30. **Georgiou, P.E. and Karpouzou, D.K., 2018.** *Optimal Irrigation Water Management for Adaptation to Climate Change.* International Journal of Sustainable Agricultural Management and Informatics, 3(4), 271-285.

31. Koukouli, P.; Georgiou, P. and Karpouzou, D., 2018. *Assessing the Hydrological Effect of Climate Change on Water Balance of a River Basin in Northern Greece*. International Journal of Agricultural and Environmental Information Systems, 9(4), 14-33.
32. Koukouli, P. and Georgiou, P., 2018. *Evaluation of Climate Change Impacts on Cotton Yield using Cropsyst and Regression Models*. Journal of Advances in Agriculture, 8(1), 1433-1451.
33. Fouda, S.E.S., Mattas, C. and Georgiou, P., 2018. *Partial Replacement of Mineral-N Fertilizer Using Compost and Biochar to Improve Growth and Yield of Peanut (Arachis hypogaea L.) Grown on a Sandy Loam Soil*. Agricultural Economics Review, 19 (2), 67-80.
34. Koukouli, P., Georgiou, P. and Karpouzou, D., 2019. *Evaluation of climate change impacts on reference evapotranspiration under RCPs scenarios in Northern Greece*. GLOBAL NEST JOURNAL, 21(4), 519-529.
35. Kalamartzis, I., Dordas, C., Georgiou, P. and Menexes, G., 2020. *The Use of Appropriate Cultivar of Basil (Ocimum basilicum) Can Increase Water Use Efficiency under Water Stress*. Agronomy, 10(1), 70, 16p.
36. Kalamartzis, I., Menexes, G., Georgiou, P. and Dordas, C., 2020. *Effect of Water Stress on the Physiological Characteristics of Five Basil (Ocimum basilicum L.) Cultivars*. Agronomy, 10(7), 1029.
37. Liapis, A.K, Georgiou, P.E. and Karpouzou, D.K, 2020. *Water Footprint of Crops at the Nestos River Plain According to Life Cycle Assessment Methodology*. Hydrotechnika, 30, 56-68.
38. Doulgeris, C., Koukouli, P., Georgiou, P., Dalampakis, P. and Karpouzou, D., 2020. *Assessment of Minimum Water Level in Lakes and Reservoirs Based on Their Morphological and Hydrological Features*. Hydrology, 7, 83.
39. Mademli, V., Karpouzou, D., Georgiou, P. and Pantelakis, D., 2020. *Development of a Scalable Computational Tool for Irrigation Scheduling*. European Water, 71/72, 15-26.
40. Mattas, C., Dimitraki, L., Georgiou, P., and Venetsanou, P., 2021. *Use of Factor Analysis (FA), Artificial Neural Networks (ANNs), and Multiple Linear Regression (MLR) for Electrical Conductivity Prediction in Aquifers in the Gallikos River Basin, Northern Greece*. Hydrology, 8(3), 127.
41. Takavakoglou, V., Georgiadis, A., Pana, E., Georgiou, P. E., Karpouzou, D. K., and Plakas, K. V., 2021. *Screening Life Cycle Environmental Impacts and Assessing Economic Performance of Floating Wetlands for Marine Water Pollution Control*. Journal of Marine Science and Engineering, 9(12), 1345.
42. Kirlas, M. C., Karpouzou, D. K., Georgiou, P. E., and Katsifarakis, K. L., 2022. *A comparative study of groundwater vulnerability methods in a porous aquifer in Greece*. Applied Water Science, 12(6), 1-21.
43. Mattas, C., Karpouzou, D., Georgiou, P. and Tsapanos, T. 2023. *Two-Dimensional Modelling for Dam Break Analysis and Flood Hazard Mapping: A Case Study of Papadia Dam, Northern Greece*. Water, 15(5), 994.
44. Kokkora, M., Koukouli, P., Karpouzou, D. and Georgiou, P. 2023. *Model Application for Estimation of Agri-Environmental Indicators of Kiwi Production: A Case Study in Northern Greece*. Environments, 10, 69.

### 3. Refereed Publications

45. Papamichail, D.M. and Georgiou, P.E., 1992. *River Flood Routing by a Nonlinear Form of the Muskingum Method*. Proceedings of the 5<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Larisa, Greece, 141-149.
46. Papamichail, D., Kotsopoulos, S. and Georgiou, P., 1994. *Comparative Analysis of Indirect Methods Estimation of Reference Crop Evapotranspiration*. Proceedings of the 2<sup>nd</sup> Conference of Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece, 35-43.
47. Papamichail, D., Babajimopoulos, C., Kotsopoulos, S., Georgiou, P. and Terzidis, G., 1995. *Investigation of Rainfall-Runoff Relationships in the Almopeos River Basin by using HEC-1*. Proceedings of the 2<sup>nd</sup> National Conference of the Greek Committee for Water Resources Management, Athina, Greece, 57-64.
48. Papamichail, D.M. and Georgiou, P.E., 1995. *Application of Multiplicative Seasonal ARIMA Models for Reservoir Operation*. Proceedings of the 3<sup>rd</sup> Balkan Conference on Operational Research, Thessaloniki, Greece, 1434-1448.
49. Papamichail, D.M. and Georgiou, P.E., 1996. *Reservoir Sizing by using the Rippl Method with the Historical and the Synthetically Generated Inflows*. Proceedings of the 2<sup>nd</sup> Panhellenic Conference "Reclamation works – Water resources management – Automation agriculture", Larisa, Greece, 853-867.
50. Papamichail, D.M. and Georgiou, P.E., 1997. *Application of a Hydrologic Model for the Rainfall – Runoff Modeling in the Almopeos River Basin*. Proceedings of the 7<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Patra, Greece, 68-76.

51. Papamichail, D.M., Georgiou, P.E., Parisopoulos, G. and Karamouzis, D., 1998. *Reservoir Sizing of the Kabourolakas Stream*. Proceedings of the 1<sup>st</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Athina, Greece, 291-302.
52. Georgiou, P.E. and Papamichail, D.M., 1999. *Design and Operation of Reservoirs by using Seasonal Stochastic Models*. Proceedings of the 12<sup>th</sup> Panhellenic Statistics Conference, Spetses, Greece, 60-69.
53. Papamichail, D.M. and Georgiou, P.E., 1999a. *Statistical Analysis of Rainstorms Intensity- Duration – Frequency Relationships*. Proceedings of the 12<sup>th</sup> Panhellenic Statistics Conference, Spetses, Greece, 455-464.
54. Antonopoulos, V.Z., Georgiou P.E. and Karamouzis, D.N., 1999. *Wastewater Management of Poligiros City with Disposal into Olynthios Stream and Irrigation Reuse*. Proceedings of the 3<sup>rd</sup> International Exhibition and Conference Heleco '99, Thessaloniki, Greece, Vol. I, 278-288.
55. Papamichail, D.M. and Georgiou, P.E., 1999b. *Comparative Analysis of Hourly and Daily Estimates of Reference Evapotranspiration by using FAO Penman-Monteith Equation*. Proceedings of the 4<sup>th</sup> National Conference of the Greek Committee for Water Resources Management, Volos, Greece, 183-189.
56. Papamichail, D.M., Georgiou, P.E. and Karamouzis, D.N., 2000α. *Monthly Inflow Estimation of the Petrenias Stream Reservoir (Chalkidiki) and its Operation Design*. Proceedings of the 8<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Athina, Greece, 277-284.
57. Papamichail, D.M., Antonopoulos, V.Z. and Georgiou, P.E., 2000. *Stochastic Models for Strymon River Flow and Water Quality Parameters*. Proceedings of the International Conference “Protection and Restoration of the Environment V”, Thassos, Greece, Vol. I, 219-226.
58. Georgiou, P.E., Papamichail, D.M. and Papazafiriou, Z., 2000. *Comparative Evaluation of the Penman and Penman-Monteith Methods by using Reference Evapotranspiration Estimates over Greece*. Proceedings of the 5<sup>th</sup> Conference of Meteorology, Climatology and Atmospheric Physics, Thessaloniki, Greece, 395-402.
59. Papamichail, D.M., Georgiou, P.E. and Karamouzis, D.N., 2000β. *Comparison of the Synthetic Unit Hydrograph Procedures by using Flood Hydrograph Estimates*. Proceedings of the 2<sup>nd</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Volos, Greece, 26-33.
60. Diamantopoulou, M., Georgiou, P. and Papamichail, D., 2002. *Multiple Regression Models for Estimating Wet Periods Runoff in Ungauged Catchments*. Proceedings of the 15<sup>th</sup> Panhellenic Statistics Conference, Ioannina, Greece, 218-228.
61. Papamichail, D.M., Georgiou, P.E. and Diamantopoulou, M.J. 2002. *Multiple Regression Models for Predicting Annual Runoff in Ungauged Catchments*. Proceedings of the 6<sup>th</sup> Balkan Conference on Operational Research, Thessaloniki, Greece, 8 p.
62. Papamichail, D.M., Georgiou, P.E., Karamouzis, D.N. and Babajimopoulos, C.S., 2003. *Investigation of Surface Water Diversion from the Areas of Mavres Petres and Madem Lakkos Mines*. Proceedings of the 9<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Thessaloniki, Greece, 11-18.
63. Georgiou, P.E., Papamichail, D.M., Karamouzis, D.N. and Parisopoulos, G., 2003. *Reservoir Sizing of the Olynthios (Vatonias) Stream and its Operation Design*. Proceedings of the 9<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Thessaloniki, Greece, 19-26.
64. Georgiou, P.E., Diamantopoulou, M. and Papamichail, D.M., 2003. *Time Series Modeling of Hydrologic Variables using Seasonal Stochastic Models SARIMA*. Proceedings of the 16<sup>th</sup> Panhellenic Statistics Conference, Kavala, Greece, 401-408.
65. Georgiou, P.E., Papamichail, D.M. and Karamouzis, D.N., 2003. *Comparative Analysis of the Peak Flows Estimates with Synthetic Unit Hydrographs Procedures and Empirical Formulas*. Proceedings of the 3<sup>rd</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Thessaloniki, Greece, 11-19.
66. Papamichail, D.M., Georgiou, P.E. and Karamouzis, D.N., 2003. *Estimation of the Specific Irrigation Water Discharge in one Suggested Water Management Plan of the Olynthios, Havrias and Petrenias Reservoirs in Halkidiki*. Proceedings of the 3<sup>rd</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Thessaloniki, Greece, 53-60.
67. Kavalieratou, S.N., Georgiou, P.E., Papamichail, D.M. and Karamouzis, D.N., 2004. *Alternative GIS Methods for the Derivation of Watershed Physiographic Information and its Impact on Synthetic Unit Hydrographs*. Proceedings of the EWRA Symposium on “Water Resources Management: Risks and Challenges for the 21<sup>st</sup> Century”, Izmir, Turkey, Vol. II, 743-754.



68. Georgiou, P.E., Diamantopoulou, M. and Papamichail, D.M., 2004. *Modeling the Rainfall-Runoff Process Using the SLURP Watershed Model and Artificial Neural Networks*. Proceedings of the EWRA Symposium on “Water Resources Management: Risks and Challenges for the 21<sup>st</sup> Century”, Izmir, Turkey, Vol. II, 949-958.
69. Georgiou, P., Vougioukas, S. and Papamichail, D., 2004. *Optimal Operation of an Irrigation Reservoir and Multi-Crop Cultivation Area Selection Using a Stochastic Optimization Technique*. Proceedings of the International Conference AgEng 2004 “Engineering the Future”, Leuven, Belgium, Paper No. 173, 1-8.
70. Diamantopoulou, M.J., Georgiou, P.E. and Papamichail, D.M., 2005. *Time Delay Artificial Neural Network Models for River Flow Routing*. Proceedings of the 6<sup>th</sup> International Conference “Sharing a Common Vision for our Water Resources” (EWRA 2005), Menton, France, Paper No. EWRA055, 1-12.
71. Georgiou, P.E., Papamichail, D.M. and Karamouzis, D.N., 2005. *Comparative Analysis of Synthetic Unit Hydrographs by using the Calculated Peak Flow of an Extreme Rainfall*. Proceedings of the 4<sup>th</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Athina, Greece, 773-781.
72. Georgiou, P.E. and Papamichail, D.M., 2005. *Synthetic Generation of Daily Precipitation Occurrence with Markov Chain*. Proceedings of the 4<sup>th</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Athina, Greece, 782-791.
73. Karamouzis, D.N. and Georgiou, P.E., 2005. *Groundwater Artificial Recharge in Confined Aquifers with Wells*. Proceedings of the 13<sup>th</sup> Seminar on the Environmental Protection on the subject “Completed Water Management – Hygiene of Potable Water”, Thessaloniki, Greece, 85-104.
74. Diamantopoulou, M.J., Georgiou, P.E. and Papamichail, D.M., 2006. *Daily Reservoir Inflow Forecasting Using Time Delay Artificial Neural Network Models*. Proceedings of the 2006 IASME/WSEAS International Conference on Energy and Environmental Systems, Chalkida, Greece, 1-6.
75. Georgiou, P.E. and Papamichail, D.M., 2006. *Synthetic Generation of Daily Precipitation*. Proceedings of the 8<sup>th</sup> Conference of Meteorology, Climatology and Atmospheric Physics, Athina, Vol. A, 96-103.
76. Georgiou, P.E. and Papamichail, D.M., 2006. *Optimization Model of an Irrigation Reservoir for Water Allocation and Crop Planning*. Proceedings of the International Conference “Protection and Restoration of the Environment VIII”, 3-7 July 2006, Chania, Greece, p. 8.
77. Georgiou, P.E. and Papamichail, D.M., 2006a. *Hydrological Dimensioning of Reservoirs for Irrigation Demand Satisfaction by Transition Probability Method*. Proceedings of the 10<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Xanthi, Greece, 201-208.
78. Karamouzis, D.N. and Georgiou, P.E., 2006. *Analytical Approach to Groundwater Artificial Recharge in Confined Aquifers*. Proceedings of the 10<sup>th</sup> Panhellenic Conference of the Greek Hydrotechnical Association, Xanthi, Greece, 437-444.
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156. **Mattas, C., Georgiou, P., Karpouzou, D. and Tsapanos, T. 2021.** *Dam Break Analysis Using HEC-RAS: The Case of Triantafyllia Dam in Northern Greece.* Proceedings of the 12<sup>th</sup> Panhellenic Conference of the Hellenic Society of Agricultural Engineers (HelAgEng), Thessaloniki, 10 p.
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166. **Georgiou, P., Mattas, C., Mattas, K., Lazaridou, D. and Nastis, S., 2022.** *Sustainable water resources management in East and West African countries: The EWA -BELT project case studies.* 182<sup>nd</sup> EAAE Seminar "Sustainability via Biodiverse Agri-Food Value Chains". MAICh Chania.
167. **Panagopoulos, Y., Karpouzou, D., Georgiou, P., & Papamichail, D. 2023.** *Ecosystem Services Evaluation from Sustainable Water Management in Agriculture: An Example from An Intensely Irrigated Area in Central Greece.* Environmental Sciences Proceedings, 25(1), 4.

#### 4. Chapters in books

168. Karamouzis, D.N. and Georgiou, P.E., 2011. *Groundwater Resource Management. Protection of Salination*. Society for the Environment and Culture Heritage, Water for Islands.
169. Voudouris, K.S., Georgiou, P.E., Mavromatis, Th. and Gianneli, Ch., 2013. *Comparison of Actual Evapotranspiration Estimation Methods: Application to Korisos Basin, NW Greece*. Chapter 6 in *Evapotranspiration*, Editor: Salah Er-Raki.
170. Koukoulis, P. G., Georgiou, P. E., and Karpouzou, D. K., 2022. *Assessing the hydrological effect of climate change on water balance of a River Basin in Northern Greece*. In *Research Anthology on Environmental and Societal Impacts of Climate Change*. IGI Global, 817-839.

#### 5. Refereed Publications with Abstract review

171. Georgiou, P.E. and Karpouzou, D.K., 2017. *Evaluating the Impact of Measured versus Predicted Solar Radiation on Reference Evapotranspiration*. 11<sup>th</sup> International AIA Conference: "Biosystems Engineering addressing the human challenges of the 21<sup>st</sup> century", Bari (Italy), Book of Abstracts, 250.

#### 6. Not Refereed Publications

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173. Georgiou, P.E. and Papamichail, D.M., 2008. *Water Resources Management for Coping with the Impacts of Climate Changes*. 2<sup>nd</sup> Conference Agrotica «Climate Changes & Agriculture», Thessaloniki, Greece.
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## 8. Books (in Greek)

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2. **Papamichail, D.M. and Georgiou, P.E., 2004.** *Optimization of pipe networks in pressurized irrigation systems*. Graduate Course Notes, Thessaloniki, 35 p.
3. **Papamichail, D.M. and Georgiou, P.E., 2005.** *Irrigation Principles and Practices. Exercises and problems*. Undergraduate Course Notes, Thessaloniki, 52 p.
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## VIII. REVIEWER

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2. Agricultural Economics Review
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4. Agricultural Water Management
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6. Archives of Environmental Science
7. Arid Land Research and Management
8. Austin Journal of Hydrology
9. Biosystems Engineering
10. Computers and Electronics in Agriculture
11. Desalination and Water Treatment
12. Environmental Monitoring and Assessment
13. Environmental Processes
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15. Fresenius Environmental Bulletin
16. Global Nest
17. Hydrological Processes
18. Hydrological Sciences Journal
19. Hydrology Research
20. International Agrophysics
21. International Journal of Digital Earth
22. International Journal of Global Environmental Issues
23. International Journal of Sustainable Agricultural Management and Informatics
24. Journal Scientia Agricola
25. Journal of Agricultural Science
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## **IX. AFFILIATIONS**

- President of Hellenic Society of Agricultural Engineering (HelAgEng) (2013-2015)
- Geotechnical Chamber of Greece
- Hellenic Hydrotechnical Association
- Hellenic Society of Agricultural Engineering (HelAgEng)
- European Society of Agricultural Engineering (EurAgEng)
- Greek Committee for Water Resources Management
- European Water Resources Association (E.W.R.A.)
- Hellenic Meteorological Society (H.M.S.)
- American Society of Agronomy (ASA)
- Crop Science Society of America (CSSA)
- Soil Science Society of America (SSSA)