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CURRICULUM VITAE



Dr. Konstantinos X. SOULIS

PERSONAL INFORMATION

Date of birth: 08/02/1973
Place of birth: Athens, Greece
Nationality: GREEK
Civil Status: Married with two children

EDUCATION:

- (1996) BSc, MSc, in Agricultural Engineering, Agricultural University of Athens
- (2009) PhD in Hydrology (Agricultural University of Athens). Subject: “Water Resources Management: Development of a Hydrological Model Using Geographical Information Systems”

AWARDS

- (1998) Scholarship for research on the fields of remote sensing and GIS applications in agriculture (National Scholarship Foundation, after successful exams)

LANGUAGE SKILLS: Greek, English

PROFESSIONAL EXPERIENCE

From July 2014, I am member of the Laboratory Teaching Personnel of the Agricultural University of Athens (Department of Natural Resources Management & Agricultural Engineering, Division of Water Resources Management (WRM), Laboratory of Agricultural Hydraulics).

From 1997 until 2014, I worked as a member of a research team in Agricultural University of Athens (Department of Natural Resources Management & Agricultural Engineering, Division of Water Resources Management (WRM), Laboratory of Agricultural Hydraulics).

My main research and teaching subjects are: Hydrology, Environmental Hydrology, Hydrological Modeling, Hydrometry, WRM, and Geographical Information System (GIS) applications development in the fields of WRM, Hydrology and Pedology.

In parallel, from 1999 up to now, I work as a scientific partner in several projects conducted by other Departments of AUA, by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.), by the Centre for Renewable Energy Sources and Saving (CRES), and by the School of Mechanical Engineering of NTUA.

Finally, from 2004 up to now, I am responsible for the organization, instrumentation, and operation of the experimental watershed of the division of WRM of the Agricultural University of Athens (Lykorrema experimental watershed, mount Penteli, Attica, Greece).

I) Publications:

- In Peer Reviewed Journals indexed in ISI Web of Knowledge

1. **Soulis K.** and Dercas N., 2007. Development of a GIS-based Spatially Distributed Continuous Hydrological Model and its First Application, *Water International*, 32(1): 177-192. DOI:10.1080/02508060708691974
2. Mimides Th., Kotsovinos N., Rizos S., **Soulis K.**, Karakatsoulis P. and Stavropoulos D., 2007. Integrated runoff and balance analysis concerning Greek-Bulgarian transboundary hydrological basin of River Nestos/Mesta, *Desalination*, 213(1-3) 174-181.
3. Stefopoulou A., **Soulis K.**, Papapetrou M., Kyritsis S. and Epp Ch., 2008. Institutional and policy framework analysis in relation to the application of autonomous desalination systems — Greece, *Desalination*, 220(1-3): 455-467.
4. Vavoulidou E., Charoulis A., **Soulis K.** Karyotis K. and Kavvadias V., 2009. “Soil Survey for Improvement of Farming Practices in Malia Municipality, Greece.” *Communications in Soil Science and Plant Analysis*. 40(1):1020-1033. DOI: 10.1080/00103620802698010
5. Valiantzas J.D., Pollalis, E.D., **Soulis, K.X.** and Londra, P., 2009. “Modified form of the extended Kostikov equation including various initial and boundary conditions.” *Journal of Irrigation and Drainage Engineering, ASCE*, Volume: 135(4), 450-458, doi:10.1061/(ASCE)IR.1943-4774.0000011.
6. **Soulis K.X.**, Valiantzas J.D., Dercas N. and Londra P.A., 2009. “Investigation of the direct runoff generation mechanism for the analysis of the SCS-CN method applicability to a partial area experimental watershed” *Hydrology and Earth System Sciences*, 13(5): 605–615.
7. Valiantzas, J.D., Pollalis V., **Soulis K.X.**, and Londra P.A., 2011. “Rapid Graphical Detection of Weakness Problems in Numerical Simulation Infiltration Models Using a Linearized Form Equation”. *Journal of Irrigation and Drainage Engineering, ASCE*, 137(8), 524-529 DOI: 10.1061/(ASCE)IR.1943-4774.0000318.
8. Diamantopoulos E., Dercas N., **Soulis K.**, Jellali S. and Stefopoulou A., 2011, “Application of phosphate water and slime in agriculture : investigation of the mobility of the pollutants using hydrologic modeling”, *Global NEST Journal*, 13(2), 130-140.
9. **Soulis K.X.** and Valiantzas J.D., 2012, “Variation of Runoff Curve Number with Rainfall in Heterogeneous Watersheds. The Two-CN system approach.” *Hydrology and Earth System Sciences*, 16, 1001-1015. doi:10.5194/hess-16-1001-2012.
10. **Soulis K.X.** and Dercas N., 2012, “Field calibration of weirs using partial volumetric flow measurements.” *Journal of Irrigation and Drainage*

- Engineering, ASCE, 138(5), 481-484, DOI: 10.1061/(ASCE)IR.1943-4774.0000424
11. Kargas G. and **Soulis K.X.**, 2012, “Performance analysis and calibration of a new low-cost capacitance soil moisture sensor” *Journal of Irrigation and Drainage Engineering*, ASCE, 138(7), 632–641, DOI: 10.1061/(ASCE)IR.1943-4774.0000449
 12. **Soulis K.X.**, Dercas N., Valiantzas J.D., 2012. “Wildfires impact on hydrological response – the case of Lykorrema experimental watershed.” *Global NEST Journal*, 14(3), 303-310.
 13. **Soulis K.X.**, Valiantzas J.D., 2013, “Identification of the SCS-CN parameter spatial distribution using rainfall-runoff data in heterogeneous watersheds”, *Water Resources Management*, 27:1737–1749, DOI: 10.1007/s11269-012-0082-5
 14. **Soulis K.X.**, 2013, “Development of a simplified grid cells ordering method facilitating GIS-based spatially distributed hydrological modeling.” *Computers & Geosciences*, 54, 160-163, DOI:<http://dx.doi.org/10.1016/j.cageo.2012.12.003>.
 15. Elmaloglou S., **Soulis K. X.**, Dercas, N., 2013, Simulation of soil water dynamics under surface drip irrigation from equidistant line sources. *Water Resources Management*, 27:4131–4148, DOI 10.1007/s11269-013-0399-8.
 16. Elmaloglou S., **Soulis K. X.**, 2013, The effect of hysteresis on soil water dynamics during surface trickle irrigation in layered soils. *Global NEST Journal*, 15 (3), 351-365.
 17. **Soulis K.X.**, 2014, “Discussion of "Procedures to Develop a Standardized Reference Evapotranspiration Zone Map" by Noemi Mancosu, Richard L. Snyder, and Donatella Spano.” *Journal of Irrigation and Drainage Engineering*, 141(7), 07014055, doi: ASCE, 10.1061/(ASCE)IR.1943-4774.0000831 , 07014055
 18. Kargas G. and **Soulis K.X.**, 2015, “Discussion of ‘Calibration of the 10HS Soil Moisture Sensor for Southwest Florida Agricultural Soils’ by David Spelman, Kristoph-Dietrich Kinzli, Tanya Kunberger.” *Journal of Irrigation and Drainage Engineering*, ASCE, 141(6), 07014050, doi: 10.1061/(ASCE)IR.1943-4774.0000823 , 07014050.
 19. **Soulis K.X.**, Dercas N. and Papadaki CH., 2015, Effects of forest roads on the hydrological response of a small-scale mountain watershed in Greece. *Hydrological Processes*, doi: 10.1002/hyp.10301
 20. **Soulis K.X.**, Elmaloglou S., and Dercas N., 2015, Investigating the effects of soil moisture sensors positioning and accuracy on soil moisture based drip irrigation scheduling systems. *Agricultural Water Management*, 148, 258–268, doi: <http://dx.doi.org/10.1016/j.agwat.2014.10.015>
 21. Papadaki C., **Soulis K.X.**, Muñoz-Mas R., Martinez-Capel F., Zogaris S., Ntoanidis L., Dimitriou E., 2015, Potential impacts of climate change on flow regime and fish habitat in mountain rivers of the south-western Balkans. *Science of the Total Environment*, S0048-9697(15)30333-8. doi: 10.1016/j.scitotenv.2015.06.134
 22. Soulis, K.X., Manolakos, D., Anagnostopoulos, J. and Papanonis, D. 2016. “Development of a geo-information system embedding a spatially distributed hydrological model for the preliminary assessment of the hydropower potential of historical hydro sites in poorly gauged areas.” *Renewable Energy*, 92: 222-232. doi:10.1016/j.renene.2016.02.013

23. **Soulis K.X.** and Elmaloglou S., 2015, Optimum soil water content sensors placement in drip irrigation scheduling systems: the concept of Time Stable Representative Positions, *Journal of Irrigation and Drainage Engineering*, ASCE, in press.

- In Other Journals

1. Σούλης Κ., Θεοχάρης Α., Εκπαιδευτική εφαρμογή πολυμέσων για τις αρδεύσεις, Γεωργία και Κτηνοτροφία, Τεύχος 3, Μάρτιος 2000.
(*Soulis K., Theocharis A., 2000, Educational Multimedia application development with subject: "Irrigation Techniques", Agriculture and Livestock, Volume 3, March 2000.*)(in Greek)

- In Conferences Proceedings (Peer Reviewed)

1. **Soulis K.**, Rizos S., Mimides Th. and Kotsovinos N., A GIS application for the preliminary selection of small hydroelectric power plants suitable sites. "Proceedings of the 7th International Conference on Environmental Science and Technology", Syros, Greece, 3-6/9 2001, Vol. II, pp. 821-829.
2. Mimides Th., Karakatsoulis P., Rizos S. and **Soulis K.** New Perspectives in the management of water resources. The case of Transboundary hydrological basin of Strymonas/Struma River between Greece and Bulgaria. "Proceedings of the 7th International Conference on Environmental Science and Technology", Syros, Greece, 3-6/9 2001, Vol. II, pp. 831-839.
3. Dercas N., **Soulis K.** and Kyritsis S. A GIS Application for the Integrated Water Resources Management of Naxos Island (Greece). "Proceedings of the 1st Conference of Hellenic Association of ICT in Agriculture, Food and Environment, Athens, Greece, 6-7 June 2002, pp. 347-356
4. Mimides Th., Rizos S., **Soulis K.**, Karakatsoulis P. and Dimitrov D., System of Prediction & Warning of Floods in the Water Basin of Strymonas/Struma River, Conference on Water Observation and Information System for Decision Support Ohrid, FYROM - 25/29 May 2004 (Paper available at www.balwois.net)
5. Vavoulidou, E., Charoulis A., Karyotis Th., **Soulis K.** and Papadopoulos P. 2004. Evaluation of Histosols using GIS: a case study from —Tenagi-Philippon" in Northern Greece. Eurosoil 2004, Freiburg, Germany. Proc. p. 251. www.bodenkunde.uni-freiburg.de/eurosoil/inhalt_poster1
6. Mimides Th., Kotsovinos N., Karakatsoulis P., Rhizos S., **Soulis K.** and Stavropoulos D. 2005. «Contribution for an Integrated Water Management of the Greek-Bulgarian Transboundary River Nestos/Mesta». International Conference on Water Economics, Statistics and Finance. Rethimno, Greece, 8-10 July 2005, pp. 443 - 450.
7. Mimides Th., Kotsovinos N., Rhizos S., **Soulis C.**, Karakatsoulis P. and Stavropoulos D. (2005). «Integrated Runoff and Balance Analysis Concerning Greek-Bulgarian Transboundary Hydrological Basin of River Nestos/Mesta». Proceedings of the International Conference on New Water Culture of South East European Countries-AQUA 2005, Helexpo, 21 - 23 October, Athens, Greece.

8. Mimides Th., Kotsovinos N., Rhizos S., **Soulis C.** and Karakatsoulis P., 2005. «Integrated Rainfall Analysis Concerning Greek-Bulgarian Transboundary Hydrological Basin of River Nestos/Mesta». Proceedings of the International Conference on New Water Culture of South East European Countries-AQUA 2005, Helexpo, 21 - 23 October, Athens, Greece.
9. Valiantzas J.D., Asimakopoulos A., Dercas N., **Soulis K.**, 2005, Development of a software tool for the hydraulic design of microirrigation systems with sloping irrigation pipelines. Proceedings of the 4th Congress of the Hellenic Society of Agricultural Engineers, Athens: 6 - 7 October.
10. Vavoulidou E., Avramidis E., Papadopoulos P., Charoulis A., Karyotis Th., and **Soulis K.**, The Use of Soil Mapping with the Aim of Improving Farming Practices in a Region of Crete, Greece., 18th World Congress of Soil Science, July 9-15, 2006 - Philadelphia, Pennsylvania, USA.
11. **Soulis K.**, Dercas N., Valiantzas J.D., 2007, Presentation of the Experimental Watershed in the Stream Lykorrema of Penteli Mountain, Proceedings of the 5th Congress of the Hellenic Society of Agricultural Engineers, Larisa: 18 – 20 October.
12. Subiela, V. J., Peñate B., Sánchez A. S., **Soulis K.**, 2007, Cost Reduction Strategies for Autonomous Desalination Units Based on Renewable Energies. IDA World Congress-Maspalomas, Gran Canaria –Spain October 21-26, 2007. REF: IDAWC/MP07-251
13. Vavoulidou E., Charoulis A., **Soulis K.**, Karyotis Th. and Papadopoulos P.. 2007. Soil survey using GIS with the Aim of Improving Farming Practices. The case of Malia Municipality, Greece.10th Internat. Symposium on Soil and Plant Analysis. Abstract Book, p.31, ISBN 978-963-06-2678-1.
14. Kerkides P., **Soulis K.**, Psomiadis E. and Giannouloupoulos P. Water resources conditions assessment in Greece and their role in desertification. CEST 2007 - 10th International Conference on Environmental Science and Technology, Kos Island, Greece, September 5th - 7th, 2007
15. Bru K., Guézennec A.G., Lanini S., Graveline N., **Soulis K.**, Karaouli F. and Guesmi A., 2008, Model development for integrated water management in the influence area of phosphate mines, Proceedings of the iEMSs Fourth Biennial Meeting: International Congress on Environmental Modelling and Software (iEMSs 2008). International Environmental Modelling and Software Society, Barcelona, Catalonia, July 2008. ISBN: 978-84-7653-074-0
16. Diamantopoulos E., Dercas N., **Soulis K.**, Jellali S. and Stefopoulou A., 2008, Investigation of groundwater pollution risk from phosphate water and slime utilization in agriculture using hydrodynamic modelling, 4th International Conference on Information and Communication Technologies in Bio and Earth Sciences (HAICTA 2008), September 18-20, 2008, Athens, Greece
17. Stefopoulou, A., N. Dercas, S. Diamantopoulos, S.Jellali and **K. Soulis**, 2008. “Investigation on the environmental risk from phosphate slime disposal using hydrodynamic modeling”. 8th International Hydrogeological Congress of Greece, Athens, pp 379-388.
18. Mimides Th., **Soulis K.**, Trikili I. Rhizos S. Pylarinou A. and Ermides D., 2008. “Physicogeography and micrometeorology of the Hydrologic basin Vathi of Kalymnos, Dodecanese, Greece”. Proceedings of the 8th International hydrogeological congress of Greece, 8-10 October.
19. Pollalis, E., **K. Soulis**, E. Diamantopoulos, P. Londra, G. Kargas, and J.D. Valiantzas. 2009. “Evaluation of a low cost soil moisture sensor”. Proceedings

- of the 11th National Conference of the Hellenic Hydrotechnical Association. – 7th National Conference of the Hellenic Committee of Water Recourses Management. Volos, 27-30 May, pp. 677-684. (in Greek)
20. **Soulis K.**, Londra P., Alonistioti D., Pollalis E. and Valiantzas J. D., 2009, Investigation of wildfires effect on flood runoff. 60 Proceedings of the 6th Congress of the Hellenic Society of Agricultural Engineers, Thessaloniki, 8-10 October.
 21. **Soulis K.**, Psomiadis E., Kerkides P., 2010, Development and Testing of a Spatially Distributed Continuous Hydrological Model for Assessing Desertification. Workshop in the frame of the European Commission “Understanding, Assessing and Monitoring Desertification”, Institute of Mediterranean Forest Ecosystems and Forest Products Technology, Athens, Greece, May 19, 2010.
 22. Bru, K., Graveline N., **Soulis K.**, Dercas N., Stefopoulou A., Guesmi A., Karaouli F., and Guézennec A.G., Development of a methodology for Integrated Water Resources Management in Mediterranean phosphate mine areas, International Congress on Environmental Modelling and Software, Modelling for Environment’s Sake, Fifth Biennial Meeting (iEMSs), Ottawa, Canada, 2010.
 23. **Soulis K.**, Dercas N., AgroHydroLogos: development and testing of a spatially distributed agro-hydrological model on the basis of ArcGIS, International Congress on Environmental Modelling and Software, Modelling for Environment’s Sake, Fifth Biennial Meeting (iEMSs), Ottawa, Canada, 2010.
 24. **Soulis K.**, Dercas N., Bru, K., Graveline N., Stefopoulou A., Development of a Decision Support System (ElmaadSS) for the integrated water management of Mediterranean phosphate mining areas, International Congress on Environmental Modelling and Software, Modelling for Environment’s Sake, Fifth Biennial Meeting (iEMSs), Ottawa, Canada, 2010.
 25. **Soulis K.**, Valiantzas J., Dercas N., Modelling forest fires hydrological impact using spatio-temporal geographical data. International Congress on Environmental Modelling and Software, Modelling for Environment’s Sake, Fifth Biennial Meeting (iEMSs), Ottawa, Canada, 2010.
 26. **Soulis K.X.**, Valiantzas J.D., 2011, “Identification of the SCS-CN parameter spatial distribution using rainfall-runoff data in heterogeneous watersheds”, VI EWRA International Symposium - Water Engineering and Management in a Changing Environment, Catania, June 29 - July 2 2011.
 27. **Soulis K.X.**, Dercas N., Valiantzas J.D., 2011. “Wildfires impact on hydrological response – the case of Lykorrema experimental watershed.” CEST2011 – Rhodes, Greece: 8 - 10 September.
 28. Kargas G., **Soulis K.X.**, Tsitou P. 2011, “Volumetric moisture determination by the 10HS sensor in various porous media.”, Proceedings of the 7th Congress of the Hellenic Society of Agricultural Engineers, Athens: 5 – 8 October.
 29. **Soulis K.X.**, Dercas N., Papadaki, X., 2013, “Effects of forest roads on the hydrological response of a small scale mountain watershed in Greece.”, Proceedings of the 13th International Conference on Environmental Science and Technology, Athens, Greece, 5-7 September.
 30. **Soulis K.X.**, Manolakos D., Anagnostopoulos J., Papantonis D., 2015, “Assessing The Hydropower Potential of Historical Hydro Sites Using A Geo-Information System and Hydrological Modeling in Poorly Gauged Areas”, 9th World Congress of the European Water Resources Association (EWRA)

“Water Resources Management in a Changing World: Challenges and Opportunities”, June 10-13, 2015, Istanbul Turkey.

31. Papadaki C., **Soulis K.X.**, Muñoz-Mas R., Ntoanidis L., Zogaris S., Dercas N., Dimitriou E., 2015 “A New Approach for Determining the Environmental Flow Regime in a Greek River”, 9th World Congress of the European Water Resources Association (EWRA) “Water Resources Management in a Changing World: Challenges and Opportunities”, June 10-13, 2015, Istanbul Turkey.
32. **Soulis K.X.**, Elmaloglou S., 2015, “Automated Irrigation Scheduling in Drip Irrigation Systems: Optimum Soil Moisture Sensors Positioning”, 9th World Congress of the European Water Resources Association (EWRA) “Water Resources Management in a Changing World: Challenges and Opportunities”, June 10-13, 2015, Istanbul Turkey.
33. Kargas G., Mpakogianis K., Papaioanou I., **Soulis K.** 2015, “Temporal variability of hydraulic conductivity at saturation of upper soil layer.” Proceedings of the 9th Congress of the Hellenic Society of Agricultural Engineers, Thessaloniki: 8 – 9 October.

- PhD. Thesis

Soulis, K.X. “Water Resources Management: Development of a Hydrological Model Using Geographical Information Systems”, Agricultural University of Athens, Dept. of Natural Resources Management & Agricultural Engineering, 2009.

- Books

“Computer applications in agriculture” Konstantinos Soulis, Eleftherios Nellas (1999) (in Greek).

II) Research Activity:

- Member of the scientific teams in the following research projects:

1. “A preliminary research for an integrated management of the Nestos/Mesta transboundary river basin waters. Existing regime - general specifications”, financed by the Greek Ministry of National Economy and Interreg II, EC. 1998 – 1999, Scientific responsible: Karakatsoulis P.
2. Environmental study - Soil survey with thematic maps in region Gorgopotamos- Lamia Central Greece. The project was implemented by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.) and financed by the region of Central Greece (Coordinator Dr. E. Vavoulidou-Theodorou) (2000-2002)
3. Soil survey and mapping of a peat area “Tennagi –Philippi” by Kavala-Drama in NE Greece) The project was implemented by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.) and financed by the Ministry of Agriculture (YEB, ΣΑΜ 081, ΚΑ 97 81 7000) (Coordinator Dr. E. Vavoulidou-Theodorou) (1998-2002)
4. Soil survey and mapping of Fokida prefecture in scale 1:100.000. The project was implemented by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.) (Coordinator Dr. E. Vavoulidou-Theodorou) (1995-2000).

5. “Flood forecasting and warning system for the Strymona/Struma transboundary river basin (STRIPLIM)”, financed by the Greek Ministry of Economy and Interreg II & III and Phare CBC, EC 1999-2000. Scientific responsible: Karakatsoulis P.
6. “Integrated research of the water resources of eastern Macedonia, Thrace and Thasos Island, Greece for establishing small hydroelectric dams”, financed by the Center for Renewable Energy Resources, 2000-2001. Scientific responsible: Mimides Th.
7. “Contamination sources and proposals for the environmental upgrading of Koumoundourou Lake, Attica Greece”, 2nd phase, financed by LIFE and the self-ruling Prefecture of West Attica. Scientific responsible: Mimides Th. (2001–2006)
8. “Rational exploitation of water resources and environmental of the hydrological basin of Vathi Kalymnos with emphasis on the holistic geohydroeconomic management of these resources”, financed by Interreg II – Drought and Municipal Company of Water and Sewerage of Kalymnos, 2000-2001. Scientific responsible: Mimides Th.
9. Compatibility of the Transboundary Monitoring Stations for the Water Quality of River AXIOS/VARDAR. Search for Software Water Quality and Local Conditions, Ministry of Environment, Physical Planning and Public Works, 2000. Scientific responsible: Karakatsoulis P.
10. Environmental study plus maps, in region Malia-Herakleion –Crete, The project was implemented by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.) and financed by the municipality of Malia (Coordinator Dr. E. Vavoulidou-Theodorou) (2001-2003).
11. Policy Initiative to Overcome Water Competition between the Vital Economic Sectors of Agriculture and Tourism in the Mediterranean EC Contract No. ICA3 – CT2000 – 30002. (2000-2004) Scientific responsible: S. Kyritsis.
12. Water Observation and Information System for Decision Support (WOISYDES) (2003-2004). Scientific responsible: Mimides Th.
13. Coordination action for autonomous desalination units based on renewable energy systems. ADU-RES. INCO MPC – 1 – 50 90 93. (2004 - 2007). Scientific responsible: S. Kyritsis.
14. “Cane Resources Network for South Africa” ICA4-CT-2001-10103. (2001 – 2005) Scientific responsible: N. Dercas
15. Environmental study plus maps, in region Gazi-Herakleion Crete, The project was implemented by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.) and financed by the municipality of Gazi (Coordinator Dr. E. Vavoulidou-Theodorou) (2002-2008).
16. Soil evaluation and soil fertility with thematic maps, in Region on Archanes Herakleion-Crete, The project was implemented by the Soil Science Institute of Athens of the National Agricultural Research Foundation (N.AG.RE.F.) and financed by the municipality of Archanes (Coordinator Dr. E. Vavoulidou-Theodorou) (2004-2005)
17. Soil evaluation with thematic maps, in region Messara -Herakleion-Crete (2003-2004), The project was implemented by the Soil Science Institute of Athens and the Institute for Olive Tree and Subtropical Plants of Chania of the

- National Agricultural Research Foundation (N.AG.RE.F.) (Coordinator Dr. E. Vavoulidou-Theodorou) (2004-2005).
18. Geographical Information System development in order to organize the technical services of the municipality of Marousi, Greece (2004-2006). Scientific responsible: Mimides Th.
 19. Instrumentation and study of an experimental watershed. (2004 - continue) Scientific responsible: N. Dercas.
 20. “Integrated water management of Mediterranean phosphate mining and local agricultural systems” INCO-MPC- 015410 Scientific responsible for Agric. University of Athens: N. Dercas (2005 – 2009)
 21. “DeSurvey: A Surveillance System for Assessing and Monitoring of Desertification” IP-003950. Scientific responsible for Agric. University of Athens: P. Kerkides (2005-2010)
 22. “Analysis of flood runoffs on Penteli mountain, Attica, Greece” Scientific responsible: N. Dercas (2009 – 2012)
 23. “Renewable Energy Sources Transforming Our Regions - Hydro (RESTOR HYDRO)”. Intelligent Energy Europe IEE/11/957, Partner for Greece School of Mechanical Engineering of NTUA, Scientific responsible: D. E. Papantonis, (2012-2015)
 24. Urban BioRoof - Cooperation for R&D on screening and formulation of substrates and plants for green roofs. Scientific responsible: Panagiotis Nektarios (2013-2015)
 25. Farming tools for external nutrient inputs and water management (FATIMA) / Horizon 2020 / Sustainable Food Security / Call: H2020-SFS-2014-2, Scientific responsible for Agric. University of Athens: N. Dercas (2015 – ongoing)

III) **EDITOR**

Member of the editorial board of the “*Journal of Mountain Science*” as scientific editor and associate editor.

IV) **Reviewer of the following referred international journals and Congresses:**

1. Journal of Hydrology
2. Hydrological Sciences Journal
3. Hydrology and Earth System Sciences Journal
4. Hydrology Research Journal
5. Computers & Geosciences Journal
6. Water Resources Management Journal
7. Agricultural Water Management Journal
8. Environmental Modelling and Software Journal
9. Vadose Zone Journal
10. Ecohydrology & Hydrobiology Journal
11. Global NEST Journal

12. Water SA Journal
13. Water Journal
14. Pedosphere Journal
15. Environmental Processes Journal
16. Journal of Mountain Science
17. Environmental Engineering and Management Journal
18. Journal of Agricultural Science and Technology
19. Arabian Journal of Geosciences
20. Environmental Engineering and Management Journal
21. Journal of Environmental Engineering and Landscape Management
22. International Congress on Environmental Modelling and Software, Modelling for Environment's Sake, Fifth Biennial Meeting (iEMSs), Ottawa, Canada, 2010.
23. 13th International Conference on Environmental Science and Technology, Athens, Greece, 2013.
24. 13th International Congress of the Geological Society of Greece, Chania, Crete, 2013.

V) Other Activities:

- Multimedia application development with subjects: "Irrigation Techniques". and "Animal Farms".
- Design and development of Spatial Databases to support soil mapping and water resources management studies.

MEMBERSHIP OF SCIENTIFIC SOCIETIES AND PROFESSIONAL BODIES:

- Geotechnical Chamber of Greece
- European Geosciences Union (EGU)
- European Water Resources Association (EWRA)
- International Association for Mathematical Geosciences (IAMG)
- International Environmental Modelling and Software Society (iEMSs).

TRAINING COURSES AND SEMINARS

15 – 22 February 2014, SMHI/ Swedish Meteorological and Hydrological Institute (LLP / ERASMUS) (Hydrological modeling - HYPE model, snow hydrology, monitoring).

25 – 26 November 2000, Training course: "Introductory Groundwater Flow and Contaminant Transport Modelling", Environmental Simulations International (esi), Athens, Greece.

1997, Training course: "Sea Resources Management and Environmental Protection", duration: 300 hours, Ministry of Education, Life Long Learning and Religious Affairs, Athens, Greece.

August 1995, Training course: “Intense three weeks course on Multimedia Creation”, MuViReX, Multimedia and Virtual Reality Center of Studies, Kalithea, Athens, Greece.

March – May 1995, Graduated the 64th “Open Sea Sailing School”, Piraeus Sailing Club - I.O.P, Piraeus, Greece.

March – May 1994, Training course: “Apiculture”, duration: 60 hours Agricultural Sciences Institute, Marousi, Attica, Greece.

OTHER SKILLS and INTERESTS:

- Excellent use of computers and Computer programming
- GIS use and GIS applications development
- Photography
- Long distance running

Main Recent Races: Marathons (42.2 km): Athens Classic Marathon 2011, 2012, 2013, 2015 (PB: 3:48':12”), Nafplio Marathon 2014, 2015 (PB: 3:39':01”), Thessaloniki Alexander the Great Marathon 2016 (3:44':39”).

- Cycling

Athens, April 2016