

Curriculum Vitae

NAME: Nicholas DERCAS
PLACE OF BIRTH: PIRAEUS
DATE OF BIRTH: 29/10/1959
MARITAL STATUS: Married, one child
HOME ADDRESS: Stavroupoleos 2, P.O. BOX: 510, DIONI, 190 09
PIKERMI
PHONE NUMBER: +30210-60.39.456
WORK NUMBER: +30210-529.40.30
MOBILE NUMBER +306944421740
e-mail ndercas1@aua.gr

1. UNIVERSITY STUDIES

PhD in Hydraulic Engineering, University of Montpellier II, (France)

Master of Science (DEA), University of Montpellier II

Diploma in Hydraulic Engineering (S.Sp), Institut National Polytechnique de Toulouse (France)

Diploma in Agricultural Engineering, Agricultural University of Athens

Diploma in Civil Engineering, National Technical University of Athens

2. FOREIGN LANGUAGES: French, English

3. PROFESSIONAL EXPERIENCE

1985-1989: During his post-graduate studies he collaborated with the “Société du Canal de Provence” (France). The aim of the project was to improve the conception of irrigation networks.

1989-1992: Researcher in the Laboratory of Hydraulics of the Agricultural University of Athens, where he participated in several research projects concerning irrigation networks and networks supplying several towns of Greece with drinking water.

1992-1994: Professor in the Air Force Academy, where he taught Hydrology, Hydraulics and Port Engineering.

1993-1999: Researcher in the Department of Biomass of the Center for Renewable Energy Sources (CRES).

1999- today: Agricultural University of Athens. Currently, Associate Professor.

4. ADMINISTRATIVE EXPERIENCE

September 2013-November 2017: Head of the Department of Natural Resources Management and Agricultural Engineering (Agricultural University of Athens)

September 2013-November 2017: Member of the Senate of the Agricultural University of Athens and Member of the Deanery of the School of Agricultural Production, Infrastructure and Environment (Agricultural University of Athens)

September 2016-November 2017: Deputy Dean of the School of Agricultural Production, Infrastructure and Environment (Agricultural University of Athens)

July 2017-today: Head of the Technical Council of Agricultural University of Athens.

September 2018 -today: Head of the Post-Graduate Studies Program of the Department of Natural Resources Management and Agricultural Engineering (Agricultural University of Athens)

5. RESEARCH ACTIVITIES

His research interests cover the area of applied agricultural hydraulic, water resources management and crops production, and the environmental analysis of biomass energy systems. He has participated in several research projects concerning irrigation networks, networks supplying several towns of Greece with drinking water, water policy, biomass crops (e.g. AIR-CT92-0041. ‘Sweet sorghum’: A sustainable crop for energy production in Europe: Agriculture, industrial improvement, optimization and implementation. 1993-1995, AIR-CT-942455. Environmental aspects of biomass production and routes for European Energy Supply. 1995-1997, AIR-CT93-1089. Cynara cardunculus network. 1993-1996, ALTENER/4.1030/94-05. AFB-network. etc).

Also, he was the scientific responsible of several projects (e.g. FAIR CT96-1913: Environmental studies on sweet sorghum and fiber sorghum sustainable crops for biomass and energy. 1997-2000, FAIR, Bioenergy for Europe. 1998-2001 etc). Moreover, he was the scientific responsible for the team of Agricultural University of Athens in the project “Cane Resources Network for South Africa” (ICA4-CT-2001-10103) and in the project “Integrated water management of Mediterranean phosphate mining and local agricultural systems”, (FP6-2003-INCO-MPC-2, Proposal No: 015410).

He is the scientific responsible, jointly with Professor Mrs. G. Economou, of the project “Evaluation of micro and macro barley trials of Athenian Brewery SA and Field trials of selected barley genotypes”, Project Nr 340244. The project is financed by the company Athenian Brewery SA, and it consists in evaluating several barley varieties under rainfed conditions as well as under supplementary irrigation conditions.

He is the scientific responsible of the project ‘Development of irrigations in the area of Keratea’ financed by the Agricultural Cooperative of Keratea.

He was the scientific responsible for the team of Agricultural University of Athens in the project ‘Farming tools for external nutrient inputs and water management (FATIMA)’ (H2020-SFS-02a-2014, Project reference: 633945).

He also participated in the project “Policy Initiative to Overcome Water Competition between the Vital Economic Sectors of Agriculture and Tourism in the Mediterranean” (EC Contract No. ICA3 – CT2000 – 30002) and in the project “Humidity Passive Harvest Technologies’ Assessment and Optimization” (ICA3-CT-2002-10032).

He participates in the CLimate CHange in Agriculture (CLICHA), Project Nr 586273, Coordinator Prof. I.Bizelis.

6. LIST OF PUBLICATIONS

In Peer-Review Journals:

N. Dercas, 1991, “Adjustment of the Clément model to the real functioning of a pipeline network operating on demand”. *Technica Chronika*, Section A, vol. 11, No 3, pp 7-36.

N. Dercas et G. Karantounias, 1997, “Problèmes de calcul des réseaux d’irrigation sous pression”, *ICID Journal*, vol. 46, No 1, pp. 119-136.

N. Dercas and A. Liakatas, 1999, “Sorghum water loss in relation to irrigation treatment”, *Water Resources Management*, Vol. 13, No 1, pp 39-57.

G. Karantounias et N. Dercas, 1999, “Problèmes de fonctionnement et de gestion des réseaux d’irrigation en Grèce - Etude de deux cas typiques”, *ICID Journal*, vol. 48, No 2, pp. 11-32.

J. D. Valiantzas, and N. Dercas, 2004, “Economic design of center-pivot sprinkler laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol. 130(6), pp.491-498.

J. D. Valiantzas, and N. Dercas, 2005, “Hydraulic analysis of multi-diameter center-pivot sprinkler laterals”, *Journal of Irrigation and Drainage Engineering*, ASCE, Vol.131(2), pp 137-146.

K. Soulis, N. Dercas, 2007, “Development of a GIS-based spatially distributed continuous hydrological model and its first application”, *Water International Journal της IWRA*, vol. 32, Number 1, pp 177-192.

N. Dercas, A. Liakatas, 2007, “Water and radiation effect on sweet Sorghum productivity”, *Water Resources Management Journal*, 21: 1585-1600.

J. D. Valiantzas, N. Dercas and G. Karantounias, 2007, ‘Explicit optimum design of simple irrigation delivery system’, *Transactions of ASABE (πρώην ASAE)*, Vol.50(2): 429-438.

K. X. Soulis, J. D. Valiantzas, N. Dercas and P. Londra, 2009, “Analysis of the runoff generation mechanism for the investigation of the SCS-CN method applicability to a partial area experimental watershed”, *Hydrology and Earth System Sciences*, 6, 373-400.

- S. Elmaloglou, E. Diamantopoulos, N. Dercas, 2009, “Comparing soil moisture under trickle irrigation modeled as a point and line source”. *Agricultural Water Management*, 97 (3), pp 426-432.
- E. Diamantopoulos, N. Dercas, 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 modelling”, Global NEST, in press.
- N. Dercas, and J.D. Valiantzas, 2012, “Two explicit optimum design methods for a simple irrigation delivery system: Comparative application”, *Irrigation and Drainage* 61: 10-19.
- K. X. Soulis, N. Dercas, “Field calibration of weirs using partial volumetric flow measurements” *Journal of Irrigation and Drainage Engineering.*, ASCE, DOI:10.1061/(ASCE)IR.1943-4774.0000424.
- K. X. Soulis, N. Dercas and J. D. Valiantzas, 2012, “Wildfires impact on hydrological response – The case of Lykorrema experimental watershed”, *Global NEST Journal*, Vol 14, No 3, pp 303-310.
- A. Stefopoulou and N. Dercas, 2012, “The effect of head losses evaluation on the analysis of pressurized irrigation networks operating on-demand”, *Water Utility Journal* 3: 3-18.
- S. Elmaloglou, K. X. Soulis, and N. Dercas, 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.
- K.X. Soulis, N. Dercas, and Ch. Papadaki, 2015, Effects of forest roads on the hydrological response of a small-scale mountain watershed in Greece. *Hydrological Processes*, doi: 10.1002/hyp.10301
- K.X. Soulis, S. Elmaloglou, and N. Dercas, 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>
- P. Vahamidis, A. Stefopoulou, V. Kotoulas, D. Lyra, N. Dercas, and G. Economou, (2017) Yield, grain size, protein content and water use efficiency of null-LOX malt barley in a semiarid Mediterranean agroecosystem. *Field Crops Research*, 206, 115-127, doi: <http://dx.doi.org/10.1016/j.fcr.2017.02.022>.
- N. Dercas, N.V. Spyropoulos, N.R. Dalezios, E. Psomiadis, A. Stefopoulou, G. Madonakis and N. Tserlikakis, 2017. Comparing cotton crop evapotranspiration using diachronic very high spatial resolution satellite data and ground measurements. *WIT Transactions on Ecology and the Environment*, Volume 220, *Water Resources Management* 2017, WIT press, 101-107.
- C. Papadaki, K.Soulis, L.Ntoanidis, S.Zogaris, N.Dercas and E.Dimitriou 2017. Comparative Assessment of Environmental Flow Estimation Methods in a Mediterranean Mountain River. *Environmental Management*. doi: 10.1007/s00267-017-0878-4.

A.Stefopoulou, N.Dercas 2017. NIREUS: A new software for the analysis of on-demand pressurized collective irrigation networks. *Computers and Electronics in Agriculture*, Volume 140, August 2017, 58-69.

N.R. Dalezios, N. Dercas, N.V. Spiropoulos and E. Psomiadis 2017. Water availability and requirements for precision agriculture in vulnerable agroecosystems. *European Water* 59: 387-394.

P.Stamouli, N.Dercas and E.Baltas 2017. Performance analysis of on-demand pressurized irrigation networks – Case study in Greece, *Water Utility Journal* 16: 39-55.

N.R. Dalezios, N. Dercas, and S.S. Eslamian, 2018. Water scarcity management: part 2: satellite-based composite drought analysis, *Int. J. Global Environmental Issues*, Vol 17, Nos 2/3, pp. 262-295.

S. Stamatiadis, • J. S. Schepers, • E. Evangelou, • C. Tsadilas, • A. Glampedakis, • M. Glampedakis, N. Dercas, • N. Spyropoulos, • N. R. Dalezios, K. Eskridge, 2018, 'Variable-rate nitrogen fertilization of winter wheat under high spatial resolution' *Precision Agric* (2018) 19:570–587, <https://doi.org/10.1007/s11119-017-9540-7>

N.Dercas, A.Liakatas 2018. Sweet Sorghum Canopy Development in Relation to Radiation and Water Use. *Environmental Processes*, <https://doi.org/10.1007/s40710-018-0300-0>

N.R. Dalezios, N. Dercas, N.V. Spyropoulos and E. Psomiadis 2019. Remotely sensed methodologies for crop water availability and requirements in precision farming of vulnerable agriculture, *Water Resources Management* 33(4), 1499-1519, <https://doi.org/10.1007/s11269-018-2161-8>.

E. Psomiadis, K. Soulis, M. Zoka, N. Dercas, Synergistic approach of Remote Sensing and GIS techniques for flash-flood monitoring and damage assessment in Thessaly plain area, Greece, *Water* **2019**, 11, 448; <https://doi.org/10.3390/w11030448>

N.R. Dalezios, N. Dercas, A. Blanta, I.N. Faraslis, Remote sensing in water balance modelling for evapotranspiration at a rural watershed in Central Greece, *Int. J. Sustainable Agricultural Management and Informatics*, Vol. X, No. Y, xxxx (in press)

N.R. Dalezios, A. Blanta, A. Loukas, M. Spiliotopoulos, I.N. Faraslis, N. Dercas. Satellite methodologies for rationalizing crop water requirements in vulnerable agroecosystems. *Int. J. Sustainable Agricultural Management and Informatics* (in press).

Stamatis Stamatiadis; James Schepers; Eleftherios Evangelou; Antonis Glampedakis; Michalis Glampedakis; Nicholas Dercas; Christos Tsadilas; Nikolas Tserlikakis; Eleftheria Tsadila. Variable-rate application of high spatial resolution can improve cotton N-use efficiency and profitability. Submitted for Publication to the *Precision Agriculture Journal* (under review).

Vahamidis, P., A.Stefopoulou, C. S. Lagogianni, G. Economou, N. Dercas, V. Kotoulas, D. Kalivas, D. I. Tsitsigiannis, 2019. *Pyrenophora teres* and *Rhynchosporium secalis* infections in malt barley as influenced by nitrogen fertilization: Assessing their epidemiology and effect on yield and quality. (Submitted for Publication to the *Phytopathologia Mediterranea*) (under review).

In Proceedings of International Conferences:

- N. Dercas, C. Panoutsou, C. Dalianis and Ch. Sooter, 1994. "Sweet Sorghum (*Sorghum Bicolor* (L.) Moench) Response to Four Irrigation and Two Nitrogen Fertilization Rates", *"Biomass for Energy, Environment, Agriculture and Industry"*, Proc. 8th European Biomass Conference, Ed. Chartier et. al., Pergamon Press, Oxford, UK, pp.629-639.
- C. Dalianis, C. Panoutsou and N. Dercas, 1996, "Spanish thistle artichoke, *Cynara cardunculus* L., under Greek conditions", "Biomass for Energy and Environment", Proc. 9th European Bioenergy Conference, Ed. Chartier et. al., Pergamon Press, Oxford, UK, pp.663-668.
- N. Dercas, C. Panoutsou and C. Dalianis, 1996, "Water and Nitrogen Effects on Sweet Sorghum Growth and Productivity", *"Biomass for Energy and Environment"*, Proc. 9th European Bioenergy Conference, Ed. Chartier et. al., Pergamon Press, Oxford, UK, pp. 54-60.
- C. Dalianis, E. Alexopoulou, N. Dercas and Ch. Sooter, 1996, "Effect of plant density on growth, productivity and sugar yields of sweet sorghum in Greece", *"Biomass for Energy and Environment"*, Proc. 9th European Bioenergy Conference, Ed. Chartier et. al., Pergamon Press, Oxford, UK, pp. 582-587.
- N. Dercas, M. Christou and C. Dalianis, 1996, "Radiation use efficiency, plant composition and fuel quality of *Miscanthus sinensis* X *Giganteus*", *"Biomass for Energy and Environment"*, Proc. 9th European Bioenergy Conference, Ed. Chartier et. al., Pergamon Press, Oxford, UK, pp. 571-576.
- C. Dalianis, C. Panoutsou, N. Dercas, 1996, "Sweet and Fiber Sorghum, two biomass promising crops" *"First European Conference on Sorghum for Energy and Industry"*, Ed. Institut National de la Recherche Agronomique, France, pp. 173-176.
- N. Dercas, C. Panoutsou and C. Dalianis, 1996, "Radiation use efficiency, water and nitrogen effect on sweet sorghum productivity", *"First European Conference on Sorghum for Energy and Industry"*, Ed. Institut National de la Recherche Agronomique, France, pp. 218-221.
- C. Dalianis, E. Alexopoulou and N. Dercas, 1996, "Relationships of plant density with biomass and sugar content of sweet sorghum", *"First European Conference on Sorghum for Energy and Industry"*, Ed. Institut National de la Recherche Agronomique, France, pp. 213-217.
- N. Dercas, C. Panoutsou and A. Liakatas, 1998, "Sorghum yield simulation according to irrigation treatment", *Διεθνές Συνέδριο IFAC-CAEA '98, Control Applications and Ergonomics in Agriculture*, Athens, pp 179-184.
- N. Dercas, G. Kavadaakis and Nikolaou A, 2000, "Evaluation of productivity, water and radiation use efficiency of two sweet sorghum varieties under Greek conditions", *1st World Conference on Biomass for Energy and Industry*, Sevilla, Spain, Ed. James & James (Science Publishers) Ltd., pp. 1654-1657.
- D. Kalivas, G. Karantounias and N. Dercas, 2000, "Impact Evaluation of Agricultural Land use on the Kotychi Biotope Using GIS" Proceedings of the *International Conference "Protection and Restoration of the Environment V"*, Thassos, Greece, pp. 667-673.

A. Tokatlidou, N. Dercas, C.P. Yialouris and M. Kokosalaki, 2002, “Land evaluation for surface irrigation using fuzzy representation and aggregation schemes”, *Computational Intelligent Systems for Applied Research*. Proc. of the 5th International FLINS Conference, Gent, Belgium, pp 403-410.

C. Epp, N. Dercas, G. Tondi, S. Capaccioli, J. Ribeiro, 2003, “MedWater Policy – Policy Initiative to Overcome Water Competition Between Agriculture and Tourism – Case Study Naxos” Proc. of the *International Conference of Renewable Energy Sources for Islands Tourism and Desalination*, Crete, Greece, pp 311-319.

G.A. Karantounias, N. Dercas, E. G. Papazoglou, 2005, Environmental impacts on protected biotopes from irrigation water overconsumption and relevant rehabilitation works – the case of Kotychi sea-lagoon. Proceedings of the 9th International Conference on Environmental Science and Technology (CEST2005), Rodos, Greece, pp 698-702.

S. Giakoumakis, N. Dercas, G. Karantounias, 2005, “Validation of a simple water balance model in Pinios river basin”, 6th International Conference of EWRA “Sharing a common vision of our water resources”, Menton (France).

A. Karamanos, N. Dercas, P. Londra and S. Aggelides, 2007, ‘Agricultural water saving in Greece’, Proceedings of the International Conference of WASAMED, ‘*Water saving in Mediterranean agriculture and future research needs*’ Eds. Lamaddalena N., Bogliotti C., Todorovic M., Scardigno A., CIHEAM-IAMB, Vol. 3, Bari, pp 225-234.

N. Dercas, 2008, ‘Sweet Sorghum cultivation for biofuel production’, 4rd International Greek Biotechnology Forum, Athens.

S. Diamantopoulos, N. Dercas, K. Soulis, S. Jellali and A. Stefopoulou, 2008, ‘Investigation of groundwater pollution risk from phosphate water and slime utilization in agriculture using hydrodynamic modeling’, International Conference HAICTA 2008, Athens, pp 56-64.

A. Stefopoulou, 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.

K. Soulis, N. Dercas, K. Bru, N. Graveline, and A. Stefopoulou (2010). “Development of a Decision Support System (ElmaaDSS) for the integrated water management of Mediterranean phosphate mining areas”. In Proc. of International Environmental Modelling and Software Society (iEMSs), 2010 “International Congress on Environmental Modelling and Software Modelling for Environment’s Sake”, Ottawa, Canada.

K. Bru, N. Graveline, K. Soulis, N. Dercas, A. Stefopoulou, A. Guesmi, F. Karaouli, M. Slimani and A. Guezennec (2010). “Development of a methodology for Integrated Water Resources Management in Mediterranean phosphate mine areas”. In Proc. of International Environmental Modelling and Software Society (iEMSs), 2010 “International Congress on Environmental Modelling and Software Modelling for Environment’s Sake”, Ottawa, Canada.

K. Soulis, and N. Dercas. (2010). “AgroHydroLogos: development and testing of a spatially distributed agro-hydrological model on the basis of ArcGIS”. In Proc. of International Environmental Modelling and Software Society (iEMSs), 2010

“International Congress on Environmental Modelling and Software Modelling for Environment’s Sake”, Ottawa, Canada.

K. Soulis, Valiantzas I. D. and N. Dercas. (2010). “Modelling forest fires hydrological impact using spatio-temporal geographical data”. In Proc. of International Environmental Modelling and Software Society (iEMSs), 2010 “International Congress on Environmental Modelling and Software Modelling for Environment’s Sake”, Ottawa, Canada.

A. Stefopoulou and N. Dercas (2011). “Performance Analysis of Large Pressurized Irrigation Networks: Effect of Head Losses Evaluation”. In Proc. of the VI EWRA International Symposium “Water Engineering and Management in a Changing Environment”, JUNE 29th - JULY 2nd, Catania, Italy.

K.X. Soulis, N. Dercas and Valiantzas J.D, (2011). “Wildfires impact on hydrological response – the case of Lykorrema experimental watershed”. In Proc. of 12th International Conference on Environmental Science and Technology - CEST2011, 8 - 10 September 2011, Rhodes, Dodecanese, Greece

Economou G., Kalivas, D., Dercas, N., Travlos, I., Stefopoulou, A. and I. Thomopoulos (2012). Site specific weed appearance in Barley crop. Preliminary results. In Proc. of 6th International Weed Science Congress, Hangzhou, China, 17-22 June 2012

K.X. Soulis, N. Dercas. and Ch. Papadaki, (2013). “Effects of forest roads on the hydrological response of a small scale mountain watershed in Greece”. In Proc. of 13th International Conference on Environmental Science and Technology - CEST2013, 5 - 7 September 2013, Athens, Greece.

A. Stefopoulou, N. Dercas (2015). NIREUS: Application of the new software for the analysis of pressurized collective irrigation networks operating on-demand. In Proc. In Proc. of the 9th EWRA World Congress “Water Resources Management in a Changing World: Challenges and Opportunities”, JUNE 10th – 13th, Istanbul, Turkey.

E. Psomiadis, N. Dercas, N.R. Dalezios and N.V. Spyropoulos, (2016). The role of spatial and spectral resolution on the effectiveness of satellite-based vegetation indices. Proc. of SPIE, 26-29 Sep 2016, Edinburgh, UK, Vol. 9998 99981L-1-13.

E. Psomiadis, N. Dercas, N.R. Dalezios and N.V. Spyropoulos, (2017). Evaluation and cross-comparison of vegetation indices for crop monitoring from Sentinel-2 and Worldview-2 images. Proc. of SPIE 10421, Remote Sensing for Agriculture, Ecosystems, and Hydrology XIX, 104211B, Nov.2017, Warsaw, Poland, doi: 10.1117/12.2278217.

A.Kavvadias, E. Psomiadis, M. Chanioti, A. Tsitouras, L. Toullos and N.Dercas (2017). Unmanned Aerial vehicle (UAV) data analysis for fertilization dose assessment. Proc. of SPIE 10421, Remote Sensing for Agriculture, Ecosystems, and Hydrology XIX, 1042121, Nov.2017, Warsaw, Poland, doi: 10.1117/12.2278152.

In Proceedings of National Conferences (indicatively):

Aggelidis S., Dercas N. and Karakatsoulis P. (1996). “Investigation of the problem of reduced soil resistance to the surface loads at the salt-works of Aggelochori”. In Proc. of 6th Panhellenic Soil Conference. Thessaloniki, Greece, pp.521-533.

- Karantounias G. and Dercas N. (2000). “Environmental impact of Pinios river (Ilia) reclamation Works on the protected biotope of the Kotychi sea-lagoon and its rehabilitation works”. In Proc. of 2nd National Conference of Agricultural Engineering. Volos, Greece, pp. 598-605
- Dercas N. and Karantounias G. (2003). “Methodology of rehabilitation and modernization of collective pressure irrigation networks”. In Proc. Of 9th Panhellenic Conference of Greek Hydrotechnical Union. Thessaloniki, Greece, pp. 207-215.
- Dercas N., Soulis K. and Kyritsis S. (2003). “A GIS Application for the Integrated Water Resources Management of Naxos Island (Greece)”. In Proc. of the 1st Conference of Hellenic Assoc. of ICT in Agriculture, Food and Environment, Athens, Greece, pp. 347-356.
- Dercas N. (2003). “Irrigation Sustainability”, Panhellenic Conference of Geotechnical Chamber of Greece, Iraklio-Greece.
- Valiantzas I.D., Asimakopoulos A., Dercas N. and Soulis K. (2005). “Development of a software tool for the hydraulic design of microirrigation Systems with slopping irrigation pipelines”. 4th Panhellenic Conference of Agricultural Engineering. Athens, Greece, pp. 624-639.
- Gagaki A., Dercas N. and Karantounias G. (2005). “Hydraulic sufficiency analysis of collective pressure irrigation networks – pilot case study in Hleia network”. 4th Panhellenic Conference of Agricultural Engineering. Athens, Greece, pp. 700-710.
- Dercas N. and Valiantzas I.D. (2006). “Explicit optimum design method for simple irrigation delivery systems. Application for Greek conditions.” In Proc. of 10th Panhellenic Conference of Greek Hydrotechnical Union, Xanthi, Greece, pp. 777-784.
- Soulis K., Dercas N. and Valiantzas I.D. (2007). “Presentation of the experimental watershed in the stream Lykorrema of Penteli mountain”. In Proc. of 5th Panhellenic Conference of Agricultural Engineering. Larisa, Greece, pp. 312-319.
- Dercas N., Londra P. and Karamanos A. (2007). “Proposals for improved irrigation water Management according to WFD 2000/60”. In Proc. of 5th Panhellenic Conference of Agricultural Engineering. Larisa, Greece, pp. 328-336.
- Stefopoulou A. and Dercas N. (2009). “Mathematical models for the hydraulic analysis of pressurized irrigation networks”. In Proc. of the joint conference of 11th Greek Hydrotechnical Union and 7th Greek Management of Water Resources Committee ‘*Integrated water resources management under climate change conditions*’. Volos, Greece, pp. 781-788.
- Stefopoulou A. and Dercas N. (2011). “Investigation Of Hydraulic Behaviour Of Irrigation Network Kalyvia-Socha (Lakonia)”. 7th Panhellenic Conference of Agricultural Engineering. 24-27 November 2011, Athens, Greece.