

CURRICULUM VITAE

PERSONAL DETAILS

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DEGREES

- “Doctorat de l’Université Paul Sabatier de Toulouse in Biometry”, Department of Natural Sciences, University Paul Sabatier – Toulouse III, France (1997)
- PhD. “Doctorat de 3ème cycle in Ecology”, Department of Natural Sciences, University Paul Sabatier – Toulouse III, France (1988)
- Diploma “D.E.A. (Diplome d' Etudes Approfondies)”, «Department of Natural Sciences, University Paul Sabatier – Toulouse III, France (1983)
- Bachelor of Mathematics, Department of Mathematics , University of Athens, Greece (1981)

PROFESSIONAL EXPERIENCE

- May 2004 –
Professor of Statistics and Quantitative methods, Department of Health & Welfare Units Administration, School of Management and Economics, Technological Educational Institute of Kalamata, Greece.
- November 2000 – Avril 2004
Associate Professor of Statistics and Quantitative methods, Department of Health & Welfare Units Administration, School of Management and Economics, Technological Educational Institute of Kalamata, Greece.
- 2004-
Invited Teaching/Research in statistics, for the Master-degree program in Historical Demography, Department of History, Ionian University.
- January 1999 - October 2000
Visiting Researcher, Department of Electronic and Computer Engineering, Technical University of Crete.
- Mars 1999 – August 1999
Visiting Lecturer, Department of Agriculture Crop Production and Rural Environment, School of Agricultural Sciences, University of Thessaly
- Mars 1998 - December 1998
Scientific Collaborator, Center for Intercultural Education, School of Philosophy, University of Athens.
- June 1997 – December 1997
Visiting Researcher, subcontractor of Department of Electronic and Computer Engineering, Technical University of Crete. Research program “Non-Nuclear Energy (JOULE) EEC project CARE: “Advanced Control Advice for power systems with large

scale integration of Renewable Energy Sources”

- September 1992 – July 1996
Researcher-Consultant, I.D.E. Environnement S.A., Toulouse, France.
- September 1991- August 1992
Invited Researcher Laboratory of Quantitative Biology, Department of Natural Sciences, University Paul Sabatier – Toulouse III, France.
- September 1989 – June 1991
Professor of Statistics and of Ecology, School of Home Economics (Harokopeios), Athens
- December 1988 – May 1989
Instructor of Applied Informatics, Laboratory of Quantitative Biology, Department of Natural Sciences, University Paul Sabatier – Toulouse III, France.

RESEARCH PAPERS

Refereed Publications

1. Dimopoulos I., Lek S., Bourret P.
Use of sensitivity indices for choosing networks with better generalization ability.
Neural Processing Letters, 2(6), 1-4, 1995.
2. Lek S., Belaud A., Dimopoulos I., Lauga J., Moreau J.
Improved estimation, using neural networks, of the food consumption of fish populations.
Australian Journal of Marine and Freshwater Research, 46, 1229-1236, 1995.
3. Dimopoulos I., Lek S., Lauga J.
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Hydrological Sciences Journal, 41(2), 179-193, 1996.
4. Lek S., Delacoste M., Baran P., Dimopoulos I., Lauga J., Aulagnier S.
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Ecological Modeling, 90, 39-52, 1996.
5. Spitz F., Lek S., Dimopoulos I.
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Journal of Biological Systems, vol. 4, no. 3, 433-444, 1996.
6. Lek S., Belaud A., Baran P., Dimopoulos I., Delacoste M.
Role of some environmental variables in trout abundance models using neural networks.
Aquatic Living Resource, 9, 23-29, 1996.
7. Lek S., Dimopoulos I., Fabre A.
Predicting phosphorous concentration and phosphorous loads from land use watershed characteristics using neural networks.
Acta Oecologica, 17(1), 43-53, 1996.

8. Lek S., Dimopoulos I., Derraz M., El Ghachtoul Y.
Rainfall - runoff modeling using artificial neural networks.
Revue des Sciences de l'Eau, 9(3), 43-55, 1996.
9. Reby D., Lek S., Dimopoulos I., Joachim J., Lauga J., Aulagnier S.
Artificial neural networks as a classification method in the behavioural sciences.
Behavioural Processes, 40, 35-43, 1997.
(21 αναφορές στη διεθνή βιβλιογραφία)
10. Dimopoulos I., Chronopoulos J., Chronopoulou-Sereli A. and Lek S.
Neural network models to study relationships between lead concentration in grasses and permanent urban descriptors in Athens city (Greece)
Ecological Modeling, 120, 157-165, 1999.
11. Matsoukis A. S., Chronopoulou-Sereli A., Dimopoulos I. D. and Kamoutsis A.
Response of Lantana camara L. subsp. camara to paclobutrazol under different shading levels.
Canadian Journal of Plant Science, 81, 761-764, 2001
12. Dimopoulos I.F., Tsiros I.X., Serelis K., Kamoutsis A., Chronopoulou A.
An Application of Parametric and Non-Parametric Models to the Assessment of Fluoride Levels in Vegetation Exposed to Stack Emissions of an Aluminum Reduction Plant in Greece.
Journal of the Air & Waste Management Association, 53 (4): 396-405, 2003
13. Gevrey M., Dimopoulos I., Lek S.
Review and comparison of methods to study the contribution of variables in artificial neural network models.
Ecological Modelling, 160(3), 249-264, 2003.
14. Tsiros I.X. and Dimopoulos I.F.
A preliminary study on the application of some predictive modelling techniques to assess atmospheric mercury emissions from terrestrial surfaces.
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15. **Kamoutsis A.P., Tsiros I, Dimopoulos Y.D.**
The role of micrometeorological parameters and paclobutrazol in vegetative growth of *Gardenia jasminoides* Ellis under greenhouse conditions
Agricoltura Mediterranea, 134, 25-32, 2004.
16. Dimopoulos I.F., Tsiros I.X., Serelis K., and Chronopoulou A.
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17. Gevrey M., Dimopoulos I., Lek S.
Two-way interaction of input variables in the sensitivity analysis of neural network models
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18. Tsiros I.X. and Dimopoulos I.F.

An Evaluation of the Performance of the Soil Temperature Simulation Algorithms Used in the PRZM Model

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19. Chronopoulos K.I., Tsiros I.X., Dimopoulos I.F., Alvertos N.
An application of artificial neural network models to estimate air temperature data in areas with sparse network of meteorological stations.
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21. Chronopoulos K.I., Tsiros I.X., Alvertos N. and Dimopoulos I.F.
Estimation of microclimatic data in remote mountainous areas using an artificial neural network model-based approach.
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21. Casteras V., Melan C., Gallo A., Dimopoulos I., Corbiere M., Lacoste C., Richard D.
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22. Dimopoulos I., Lek S., Lauga J., El Ghachtoul Y., Derraz M., Dauta A.
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25. Dimopoulos Y. and Chronopoulou-Sereli A.
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Πρακτικά 4ου Πανελληνίου Συνεδρίου Μετεωρολογίας-Κλιματολογίας-Φυσικής της Ατμόσφαιρας, 22-25 Σεπτεμβρίου 1998, Αθήνα, 389-396, 1998.
26. Dimopoulos I. F., Kannavou A., Serelis K., Chronopoulou A. and Lek S.

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2nd international conference on applications of machine learning to ecological modeling, Adelaide, Australia, 27/11 – 1/12/2000.

27. Dimopoulos I. F., Serelis K., Tsiros I. X., Chronopoulou-Sereli A.
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28. Hatziargyriou N.D., Karapidakis E.S., Stavrakakis G.S., Dimopoulos I.F., Kalaitzakis K.
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2001 IEEE Porto Power Tech Proceedings, September 10th-13th, Porto, Portugal, ISBN 0780371399, 2001.
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A screening level assessment of air-surface exchange of mercury vapor over some terrestrial landscapes: results from environmental and statistical models
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3rd Conference of the International Society for Ecological Informatics, Rome, Italy, 26-30 August, 2002.
33. Papoutsis I., Dimopoulos I.
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34. Kasimatis K., Katalifou A., Dimopoulos I. F.
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3rd Mediterranean Conference on Mathematical Education, Athens, Greece, 3-5 January, 2003.

35. Dimopoulos I.F., Chronopoulos K.I., Alvertos N., Tsiros I.X.
A preliminary study of meteorological parameters at Samaria Gorge (Crete, Greece) using statistical and artificial neural network methods.
 9th International Conference on Environmental Science and Technology, 9CEST – Rhodes, 2005
36. Tsiros I., Dimopoulos I., Zakikhani M., Harrelson D., Droulia F.
A comparative study of model algorithms for predicting soil thermal regime and climatic water budget of agricultural watersheds.
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37. Chronopoulos K.I., Dimopoulos I.F., Tsiros I.X., Alvertos N.
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38. Paschalidis C., Kavvadias V., Dimopoulos I., Vavoulidou E., Chasaneas N.
Effect of soil water content and type of nitrogenous fertilizer on growth and yield of onion (*Allium cepa* L.) and on availability of nutrients in plant and soil.
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39. Chronopoulos K., Tsiros I., Alvertos N., Shashua-Bar L. and Dimopoulos I.
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- Mouton A M., Dedecker A. P., Lek S., Goethals P.L.M.
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- Reddy N.S., Dzhebyan I., Lee J.S. and Koo Y.M.
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- Coulibaly P, Anctil F, Bobee B.
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- Schreider SY, Young PC, Jakeman AJ
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MATH COMPUT MODEL 33 (6-7): 733-743 MAR-APR 2001
- Gaume E, Gosset R
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HYDROL EARTH SYST SC 7 (5): 693-706 OCT 2003
- Riad S., Mania J., Bouchaou L., Najjar Y.
Predicting catchment flow in a semi-arid region via an artificial neural network technique
HYDROLOGICAL PROCESSES, 18, 2387–2393, 2004

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For instance

- Kim, C.-K., Lee, H.-S, Lee, D.
Non-stationary movement analysis using wavelet transform
Lecture Notes in Control and Information Sciences, Volume 345, 2006, Pages 976-981

- Mandal S., Sivaprasad P V, Venugopal S and Murthy K P N
Constitutive flow behaviour of austenitic stainless steels under hot deformation: artificial neural network modelling to understand, evaluate and predict
Modelling Simul. Mater. Sci. Eng. 14 (2006) 1053–1070
- Zhang, W.J.
Supervised neural network recognition of habitat zones of rice invertebrates
Stochastic Environmental Research and Risk Assessment, Volume 21, Issue 6, 2007, 729-735
- Zheng X., Liu M.
An overview of accident forecasting methodologies
Journal of Loss Prevention in the Process Industries, Volume 22, Issue 4, July 2009, Pages 484-491
- Merdun, H., Çınar, Ö.
Artificial neural network and regression techniques in modelling surface water quality
Environment Protection Engineering 36 (2), pp. 95-109, 2010

P5 (3 references)

- Verdonschot P.F.M & Nijboer R.C. (eds.)
Predicting Aquatic Ecosystem Quality using Artificial Neural Networks: Impact of Environmental characteristics on the Structure of Aquatic Communities (Algae, Benthic and Fish Fauna)
Wageningen, Alterra, Green World Research, Alterra-rapport 517. 92 pp, 2002, EUROPEAN COMMISSION, RESEARCH DIRECTORATE-GENERAL, ISSN 1566-7197
- Tirelli, T., Pessani, D.
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- Favaro, L., Tirelli, T., Pessani, D.
The role of water chemistry in the distribution of Austropotamobius pallipes (Crustacea Decapoda Astacidae) in Piedmont (Italy).
Comptes Rendus - Biologies 333 (1), pp. 68-75, 2010

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For instance

- Birks HJB
Numerical tools in palaeolimnology - Progress, potentialities, and problems,
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- Czerwinski, I.A., Gutiérrez-Estrada, J.C., Hernando-Casal, J.A.
Short-term forecasting of halibut CPUE: Linear and non-linear univariate approaches
Fisheries Research, Volume 86, Issue 2-3, 2007, 120-128
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J FRESHWATER ECOL 19 (4): 623-629 DEC 2004
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For instance

- Birks HJB.
Numerical tools in palaeolimnology - Progress, potentialities, and problems.
J PALEOLIMNOL 20 (4): 307-332 DEC 1998
- Verdonschot P.F.M & Nijboer R.C. (eds.)
Predicting Aquatic Ecosystem Quality using Artificial Neural Networks: Impact of Environmental characteristics on the Structure of Aquatic Communities (Algae, Benthic and Fish Fauna). Wageningen, Alterra, Green World Research, Alterra-rapport 517. 92 pp, 2002, EUROPEAN COMMISSION, RESEARCH DIRECTORATE-GENERAL, ISSN 1566-7197
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- Riad S., Mania J., Bouchaou L., Najjar Y.
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- Astrom M., Vencatasawmy, C.P.
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