

CURRICULUM VITAE OF KONSTANTINOS P. MOUSTRIS



Personal Details

Home address: 22 Osis, Gerakas, Athens, GR153 44, Greece
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University of West Attica
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Marital status: Married. Father of one child.

Academic Qualifications

▪ **School of Chemical Engineering, National Technical University of Athens (N.T.U.A.), Athens, Greece.**

PhD Thesis: “Air quality forecasting with the use of artificial neural networks in the greater Athens area”. (*May 2005-November 2009*).

▪ **Faculty of Applied Science, Department of Physics, National and Kapodestrian University of Athens, Greece.**

M.Sc. in Meteorology and Environmental Physics.
(*September 1990-March 1992*).

▪ **Faculty of Applied Science, Department of Physics, National and Kapodestrian University of Athens, Greece.**

B.Sc. in Physics. (*January 1985–May 1989*).

▪ **1st High School & Lyceum of Egaleo.**

Lower & upper secondary education. (*September 1977–June 1983*).

Research Activities

▪ **Research project contract with the National University of Athens.**

The contract was made according to the provisions of Presidential Decree 432/81 (N.1514/85). Number of Scientific Research: KA 70/2/525. Title: “A study to the impact of air pollution, high temperatures and humidity on public health”. (*February 1990–September 1990*).

▪ **Collaboration with PROTECHNA LTD (*Company of Engineering Research and Applications*).**

The purpose of this collaboration was to study the needs of hybrid and passive cooling in Greece. Also, thermal calculations performance for the flamboyant of E.E.C program, SE 156/88. (*January 1990 -September 1990*).

▪ **Collaboration with the Institute of Applied Technology of the Greek Productivity Centre (E.A.KE.IIA).**

This collaboration involved the studies of modern cooling systems. Also involved a study on energy saving in buildings, passive solar building architecture-systems, a study of the use of geothermal resources of the Lesbos island, etc. (*October 1990-June 1993*).

▪ **Participation in the European Community Programme: “THE PASSYS TEST CELLS. A Common European Outdoor Test Facility Thermal and Solar Building Research”.** (*March 1991-October 1992*).

▪ **Collaboration with the Company “KYROS”. Technical Studies and Applications.**

Providing research project on IT and PC. (*January 1994-December 1994*).

▪ **Technological Educational Institute of Piraeus. Collaboration under the program "Archimedes II: Research Groups in TEI of Piraeus". Act II 2.2.3 EPEAEK.**

Within this collaboration I was assigned the project of searching, processing and analytical determination of the necessary values of the meteorological data simulations for the sub-project 6 “simulation-study of buildings energy-efficient using economically efficient passive and hybrid solar systems and components, in order to improve the energy performance of buildings in Greece”.

(*April 2005-December 2006*).

▪ **Technological Educational Institute (TEI) of Piraeus. Program: support research activities of TEI Piraeus. Academic Year 2009-2010. Special Account Research Committee. Inside Research K. ΕΓΑΣ. Subproject: 40030-01. "Study of particulate matter (PM10) concentrations distribution within the greater Athens area."**

As part of this collaboration, I was responsible for the statistical analysis of particulate matter (PM10) concentrations in the greater Athens area during the period 2001-2008.

(*June 2009 - December 2010*).

▪ **Technological Educational Institute (TEI) of Piraeus. Research Committee of TEI Piraeus. Operational Programme for Competitiveness. Operational Programme II-ENTREPRENEURSHIP. Project Title: "Preparing the syllabus, methodology, conduct examinations and examiners for the technical profession license." Project Code: 80169.**

As part of this collaboration, I was responsible for preparing the theoretical material examiners to conduct examinations for the purpose of obtaining a technical profession license.

(December 2011 - February 2012).

▪ **Technological Educational Institute (TEI) of Piraeus. Innovation & Entrepreneurship Unit (MKE) of Piraeus Institute. Operational Programme: "Education and Lifelong Learning" funded by the European Union (European Social Fund) and National Resources.**

As part of implementation of the Act "Unit Innovation and Entrepreneurship, TEI Piraeus" MIS 304322, Priority 5 "Upgrading the systems of initial vocational training and vocational education and link education with the labor market in 3 Phasing Out Regions ", which is implemented in the Operational Programme "Education and Lifelong Learning" and funded by the European Union (European Social Fund) and National Resources, I was responsible for creating educational materials in the educational process of the Action, in order to create the Entrepreneurship courses
(April 2013).

▪ **Technological Educational Institute of Piraeus. Collaboration under the program "Archimedes III: Research Groups in TEI of Piraeus". Member of the main research team under the sub-project: "Exploitation of Meteorological Data for Solar Energy Systems."**

Within this collaboration I was assigned the project of collection, evaluation and analysis of meteorological data, as well as measurements of solar radiation in Greece. Also, I was assigned for the creation of a typical meteorological year for the examined locations in Greece.
(October 2012 - October 2015).

▪ **Piraeus University of Applied Sciences (Technological Educational Institute of Piraeus). Member of the main research team project under Action "EXCELLENCE II" entitled "Integrated planning tool to meet the energy and water needs in the short and medium scale islands of the Aegean Sea through the application of best hybrid systems using renewable energy-PHAROS".**

Action is funded by the European Social Fund (ESF) and National Resources under the Operational Programme "Education and Lifelong Learning" (EdLL). Promoter of the program: TEI Piraeus (Mechanical Engineering Department).
(February 2014 - July 2015).

▪ **Piraeus University of Applied Sciences & University of West Attica. Member of the main research team project "Technology Innovation for the Local Scale, Optimum Integration of Battery Energy Storage - TILOS". Horizon 2020, Low Carbon Energy, Local / small-scale storage, LCE-08-2014. Within this collaboration I was assigned the project of Work Package 6 "Forecasting Models". TILOS HORIZON 2020 won the 1st Energy Islands' Award and Public Vote Award at EU Sustainable Energy Week – EUSEW17.
*(February 2015 – January 2019).***

Work Experience

- Free lancer with main activities "RESEARCH AND DEVELOPMENT IN PHYSICS SCIENCE AND ENGINEERING. (*May 1990-December 2001*).
- Meteorologist-Observer, at the Meteorological Station of International Airport of Naxos Island, Greece. (*October 1992-December 1993*).

Lecturing & Academic Experience

- **School of Engineering, Department of Mechanical Engineering, University of West Attica. Athens, Greece.**

Associate Professor

Own lectures- Laboratory Coordinator: Fluid Mechanics, Air Pollution and air Pollution Abatement Technologies

Own lectures-Laboratory Coordinator: Fluid Mechanics, Air Pollution and air Pollution Abatement Technologies

(*March 2018 - till now*).

- **Department of Mechanical Engineering, Piraeus University of Applied Sciences (*Technological Educational Institute of Piraeus*). Athens, Greece.**

Assistant Professor

Own lectures: Fluid Mechanics, Air Pollution and air Pollution Abatement Technologies

Laboratory Coordinator: Fluid Mechanics, Air Pollution and air Pollution Abatement Technologies

(*July 2014 – March 2018*).

- **Department of Civil Engineering, Technological Educational Institute (T.E.I.) of Piraeus, Athens, Greece.**

Lecturer

Own lectures: Hydraulics

Laboratory Coordinator: Hydraulics

(*September 2013 - February 2018*)

- **Department of Mechanical Engineering, Technological Educational Institute (T.E.I.) of Piraeus, Athens, Greece.**

Lecturer

Own lectures: Fluid Mechanics, Environmental Measurements Technology

Laboratory Coordinator: Fluid Mechanics, Environmental Measurements Technology

(*November 2008-till July 2014*).

- **Department of Mechanical Engineering, Technological Educational Institute (T.E.I.) of Piraeus, Athens, Greece.**

During the period 2008-till now, I was responsible for overseeing fifty eight (58) undergraduate Theses undergraduate for the students of the Department of

Mechanical Engineering. Forty eight of these Theses (48) have been completed, while the remaining ten (10) are in progress.
(November 2008-till now).

▪ **Department of Mechanical Engineering, Technological Educational Institute (T.E.I.) of Piraeus, Athens, Greece.**

During the period 2008-till now, I was responsible for overseeing twelve (12) graduate Theses of the Graduate Program students «M.Sc. In Energy » co-organized by the Department of Mechanical Engineering, TEI of Piraeus and the School of Engineering and Physical Sciences, Heriot-Watt University of the United Kingdom. From the listed tasks, eleven (11) have been completed, have been presented and have been evaluated by a three-member inquiry committee, while the remaining one (1) is in progress.
(November 2008-till now).

▪ **University of West Attica, School of Mechanics, Department of Mechanical Engineering, Athens, Greece.**

From 2015 until today, I participate in the ERASMUS and ERASMUS+/ICM program, giving lectures in English in the topic of "Air Pollution-Pollution Technologies" in foreign students from EU (ERASMUS) countries as well as outside the EU (ERASMUS+/ICM).

- In December 2013, as part of the ERASUMS-Staff Mobility program, I visited the CERN Research Center in Geneva (Switzerland). During this visit, the collaboration between the Piraeus University of Applied Sciences (PUAS) and CERN laboratory for the production of specialized research equipment for the preparation of the practical training for the students of PUAS was discussed and achieved.
- During May 2017, in the frame of ERASUMS-Staff Mobility for Teaching, I visited the Krakow University of Technology (Krakow-Poland) and I gave lectures in English to postgraduate students of the University for three days in the field of "Artificial Neural Networks Modeling-Environmental and Energy Management Applications".
- During November 2017, in the frame of the ERASMUS + / ICM-Staff Mobility for Teaching, I visited Jordan University of Science and Technology (JUST) and I gave lectures in English to undergraduate students of this University for three days, in the thematic area of "Artificial Neural Networks Modeling - Environmental and Energy Management Applications".
- In May 2018, within the frame of ERASUMS + / ICM-Staff Mobility for Teaching program, I visited the Mining Metallurgical Institute of Tajikistan (Buston city, Tajikistan) and I gave lectures, in English, for three days to undergraduate students of the University on the subject of "Artificial Neural Networks Modeling-Environmental and Energy Management Applications".
- In March 2019, as part of the ERASUMS + / ICM-Staff Mobility for Teaching program, I visited Menoufia University (Egypt) and I gave lectures, in English, to undergraduate undergraduates at the University for three days on the topic "Artificial Neural Networks" Modeling-Environmental and Energy Management Applications ». During this visit, I was also participated in the Second International Conference, 16-20 March

2019, Sharm El Sheikh, Egypt with an oral presentation of my research paper entitled "Application of Artificial Neural Networks in Steel Carburization".

- In October 2019, as part of the ERASUMS-Staff Mobility for Teaching, I visited the Department of Mechanical Engineering at Istanbul Technical University (ITU-Istanbul, Turkey) and gave for three days, in English, lectures to undergraduate students of this University in the topic area of "Artificial Neural Networks Modeling-Environmental and Energy Management Applications".

▪ **Department of Mechanical Engineering, Piraeus University of Applied Sciences (PUAS), Athens, Greece.**

During the years 2016, 2017 and 2018, I was invited to give lectures at the course of "Air pollution control and Air pollution amendment technologies" for the 3rd Semester of the Postgraduate Diploma (MSc) in "Energy and Environmental Investments".

▪ **Technological Educational Institute (TEI) of Piraeus. Technological Research Center of Piraeus and Islands.**

Teaching-lectures in a Graduate Seminar on: "Energy, Environment and New Technologies-EIENET."

(October 2009-December 2009).

▪ **Department of Mechanical Engineering, Technological Institute (T.E.I.) of Piraeus, Athens, Greece.**

Assistance Lecturer

Participation in the following Lecturers and Laboratories:

Fluid Mechanics I & II.

(September 1991-November 2008).

▪ **Faculty of Applied Science, Department of Physics, National and Kapodestrian University of Athens, Greece.**

Participation in the Lectures and Labs of Atmospheric Physics, according to the relevant provisions (Article 19 & 7) of Presidential Decree 380/89 (Official Gazette 167 ΤΑ).

(September 1990-May 1991).

▪ **Greek Productivity Centre (ΕΛ.ΚΕ.ΠΑ.).**

Teaching- training in graduates scientific seminars.

(October 1990-June 1993).

Books & Academic notes

1. K.P. Moustiris and K.-S. P. Nikas, 2009. "Fluid Mechanics-Brief Theory and exercises". Notes for the students of Mechanical Engineering Department, T.E.I. of Piraeus (91 pages).

2. K.P. Moustris and G.Ch. Spyropoulos, 2010. "Environmental Measurements Technology". Notes for the students of Mechanical Engineering Department, T.E.I. of Piraeus (233 pages).
3. K.P. Moustris and G.Ch. Spyropoulos, 2011. "Environmental Measurements Technology-Laboratory notes" Notes for the students of Mechanical Engineering Department, T.E.I. of Piraeus (92 pages).
4. Nikolopoulos N., Nikas K-S. P., Moustris K.P., 2011. Applied Fluid Mechanics. Brief theory and exercises. " Notes for the students of Mechanical Engineering Department, T.E.I. of Piraeus. ISBN: 978-960-9671-01-09 (240 pages).
5. Nastos, P., Moustris, K., Larissi, I., Paliatsos, A., 2011. "Air Quality and Bioclimatic Conditions within the Greater Athens Area, Greece - Development and Applications of Artificial Neural Networks". In: *Advanced Air Pollution*, InTech - Open Access Publisher, pp. 557-584 (F. Nejadkoorki (Ed.)) (ISBN: 978-953-307-511-2).
6. D. Zafirakis, K. Moustris, Ch. Maragkos, M. Stathopoulos, G. Tzanes, 2015. Development of Realistic Demand Side Management Strategies Using Artificial Neural Networks for the Production of Informative Wind Speed Prediction Signals. *Renewable Energy in the Service of Mankind Vol I*. Chapter 85, pp. 951-959.
7. K.P. Moustris, G. Ch. Spyropoulos, 2018. Air Pollution Diffusion Models. Academic Notes (in Greek) for the undergraduate students of the Department of Mechanical Engineering of the University of West Attica (25 pages).
8. K.P. Moustris, 2018. University of West Attica (e-class) online course platform. Development of the course "Air Pollution" with presentation of more than 1000 slides (power point), teaching notes, laboratory exercises, etc.

Member of Advisory Committees (MSc & PhD)

▪ **National & Kapodistrian University of Athens. School of Science. Department of Geology and Geoenvironment.**

Member of a three-member Advisory Committee of the Postgraduate Program "Geography and the Environment". Preparation and monitoring of a dissertation entitled "Tropical Cyclones in the Mediterranean (Medicanes). Average/abnormal summary meteorological conditions and impacts". (January 2016).

▪ **National & Kapodistrian University of Athens. School of Science. Department of Geology and Geoenvironment.**

Member of a three-member Advisory Committee of the Postgraduate Program "Geography and the Environment". Preparation and monitoring of a dissertation entitled "Spatial and temporal variability of the human thermal sensation in the greater area of Athens University Campus ". (January 2016).

▪ **National & Kapodistrian University of Athens. School of Science. Department of Geology and Geoenvironment.**

Member of a three-member Advisory Committee for the preparation and the monitoring of a PhD Thesis entitled "Spatial and temporal variability of air pollution and health impacts in the wider Volos region. Methodological and empirical approach". (February 2017).

▪ **National & Kapodistrian University of Athens. School of Science. Department of Geology and Geoenvironment.**

Member of a three-member Advisory Committee for the preparation and the monitoring of a PhD Thesis entitled "The contribution of electromobility based on mild forms of energy and on optimizing the quality of the atmospheric environment and bioclimatic conditions. Urban impacts modeling, policies and actions". (November 2017).

▪ **University of West Attica (UNIWA). School of Mechanics. Department of Mechanical Engineering.**

During the period 2010-2017, I was assigned the supervision of twelve (12) Dissertations for the Master's Degree Program "MSc in Energy", which is co-organized by the Department of Engineering of UNIWA (former Technological Institute of Piraeus) and the Faculty of Engineering and Physical Sciences, Heriot-Watt University-UK. The above 12 dissertations have been successfully completed, have been presented and have been evaluated by a three-member Selection Board.

▪ **University of West Attica (UNIWA). School of Engineering. Department of Electrical & Electronic Engineering.**

Member of a three-member Advisory Committee for the preparation and the monitoring of a PhD Thesis entitled "Study of the spatio-temporal evolution of the quality of the atmospheric environment and the socio-economic impacts in the greater Athens area". (January 2020).

Publications in International Scientific Journals

1. I. Tselepidaki, M. Santamouris, C. Moustris and G. Pouloupoulou, 1992. "Analysis of the summer discomfort index in Athens, Greece, for cooling purposes". Energy and Buildings, Vol. 18, PT 1, pp. 51-56. (Citations=15; IF=2.81)
2. K. Katsouyanni, A. Pantazopoulou, G. Touloumi, I. Tselepidaki, K. Moustris, G. Pouloupoulou, D. Trichopoulos, 1993. "Evidence for Interaction between Air Pollution and High Temperature in the Causation of Excess Mortality". Archives of Environmental Health, Vol. 48, No 4, pp. 235-242. (Citations=134; IF=0.85)
3. I.G. Tdelepidaki, D.N. Asimakopoulos, K. Katsouyanni, C. Moustris, G. Touloumi, A. Pantazopoulou, 1995. "The use of a complex thermohygrometric index in predicting adverse health effects in Athens". Int. J. of Biometeorology, 1995, Vol. 38, pp. 194-198. (Citations=7; IF=2.25)

4. K. Moustris, A.G. Paliatsos, A. Bloutsos, K. Nikolaidis I. Koronaki and K. Kavadias, 2008. "Use of Neural Networks for the Creation of Hourly Global and Diffuse Solar Irradiance Data at Representative Locations in Greece". *Renewable Energy Journal*, Vol. 33, No 5, pp. 928-932. (Citations=6; IF=2.98)
5. A.G. Paliatsos, L.G. Viras, K. Moustris, 2008. "Temporal Variability of Surface Ozone at Rural Locations in Greece". *Fresenius Environmental Bulletin*, Vol. 17, No 1, pp. 66-73. (Citations=5; IF=0.66)
6. K.P. Moustris, I.C. Ziomas, A.G. Paliatsos, 2009. "24hours in advance forecasting of thermal comfort-discomfort levels during the hot period of the year at representative locations of Athens city, Greece". *Fresenius Environmental Bulletin*, Vol. 18, No 5, pp. 601-608. (Citations=7; IF=0.66)
7. K.P. Moustris, I.C. Ziomas, A.G. Paliatsos, 2010. "3-Day-Ahead Forecasting of Regional Pollution Index for the pollutants NO₂, CO, SO₂ and O₃ using Artificial Neural Networks in Athens, Greece". *Water, Air, & Soil Pollution Journal*, 209, pp. 29-43. (Citations=14; IF=1.63)
8. I.K. Larissi, K.V. Koukouletsos, K.P. Moustris, A. Antoniou and A.G. Paliatsos, 2010. "PM10 concentration levels in the greater Athens area, Greece". *Fresenius Environmental Bulletin*, Vol. 19, No 2, pp. 226-231. (Citations=8; IF=0.66)
9. Moustris K.P., Tsiros I.X., Ziomas I.C., Paliatsos A.G., 2010. Artificial neural network models as a useful tool to forecast human thermal comfort using microclimatic and bioclimatic data in the great Athens area (Greece). *Journal of Environ. Sci. and Health, Part A*, Vol. 45, pp. 447-453. (Citations=5; IF=1.19)
10. K.P. Moustris, I.K. Larissi, P.T. Nastos and A.G. Paliatsos, 2011. Precipitation forecast using artificial neural networks in specific regions of Greece. *Water Resources Management*, Vol. 25, No 8, pp. 1979-1993. (Citations=5; IF=2.05)
11. Moustris, K.P., Proias, G.T., Larissi, I.K., Nastos, P.T. and Paliatsos, A.G., 2012. Bioclimatic and air quality conditions in the greater Athens area, Greece, during the warm period of the year: trends, variability and persistence. *Fresenius Environmental Bulletin*, 21, 8b, pp. 2368-2374. (Citations=0; IF=0.66)
12. Moustris, K.P., Douros, K., Nastos, P.T., Larissi, I.K., Paliatsos, A.G., Priftis, K.N., 2012. "Seven days ahead forecasting of childhood asthma admissions using artificial neural networks in Athens, Greece". *International Journal of Environmental Health Research*, Vol. 22, Issue 8, pp. 93-104. (Citations=1; IF=0.86)
13. Vouterakos P.A., Moustris, K.P., Bartzokas A., Ziomas I.C., Nastos, P.T., Paliatsos A.G., 2012. "Forecasting the discomfort levels within the greater Athens area, Greece using artificial neural networks and multiple criteria analysis". *Theoretical and Applied Climatology*, 110, 3, pp. 329-343. (Citations=1; IF=1.94)
14. K.P. Moustris, P.T. Nastos, I.K. Larissi and A.G. Paliatsos, 2012. "Application of Multiple Linear Regression Models and Artificial Neural Networks on the surface ozone forecast in the greater Athens area, Greece".

Advances in Meteorology, Volume 2012, Article ID 894714, 8 pages, doi:10.1155/2012/894714 (Citations=0; IF=1.24).

15. Proias G.T., Moustris K.P., Larissi I.K., Nastos P.T. and Paliatsos A.G., 2012. "Ambient PM10 concentrations and the impact of wind at an urban site in Central Greece". *Fresenius Environmental Bulletin*, 21, 7a, pp. 1935-1941. (Citations=1; IF=0.66)
16. Nastos P.T., Moustris K.P., Larissi I.K. and Paliatsos A.G., 2013. "Rain intensity forecast using artificial neural networks in Athens, Greece." *Atmospheric Research*, 119, pp. 153–160. (Citations=1; IF=1.91)
17. Proias G.T., Larissi I.K., Moustris K.P., Nastos P.T. and Paliatsos A.G., 2013. "Assessment of surface ozone variability in an urban coastal area at the eastern Mediterranean." *Global NEST Journal*, 15, 2, pp. 163-168. (Citations=0; IF=0.54)
18. Strotos G., Nikolopoulos N., Nikas K.-S., Moustris K., 2013. "Cooling effectiveness of droplets at low Weber numbers: Effect of temperature". *International Journal of Thermal Sciences*, 72, pp. 60-72. (Citations=0; IF=2.47)
19. K.P. Moustris, I.K. Larissi, P.T. Nastos, K.V. Koukouletsos, A.G. Paliatsos, 2013. "Development and Application of Artificial Neural Network Modeling in Forecasting PM10 Levels in a Mediterranean City". *Water Air Soil Pollut.*, 224:1634, DOI 10.1007/s11270-013-1634-x. (Citations=0; IF=1.63)
20. K.P. Moustris, P.T. Nastos, A.G. Paliatsos, 2013. "One-day Prediction of biometeorological conditions in a Mediterranean Urban Environment using Artificial Neural Networks Modeling". *Hindawi Publishing Corporation, Advances in Meteorology*, Volume 2013, Article ID 538508, 15 pages, <http://dx.doi.org/10.1155/2013/538508>.
21. P.T. Nastos, A.G. Paliatsos, K.V. Koukouletsos, I.K. Larissi, K.P. Moustris, 2014. "Artificial neural networks modeling for forecasting the maximum daily total precipitation at Athens, Greece". *Atmospheric Research*, 144, pp. 141–150.
22. K.P. Moustris, G.T. Proias, I.K. Larissi, P.T. Nastos, K.V. Koukouletsos and A.G. Paliatsos, 2014. "Prognosis of maximum daily surface ozone concentration within the greater Athens urban area, Greece". *Global NEST Journal*, 16, 5, pp. 873-882.
23. K.P. Moustris, P.T. Nastos, A. Bartzokas, I.K. Larissi, P.T. Zacharia and A.G. Paliatsos, 2014. "Energy consumption based on heating/cooling degree days within the urban environment of Athens, Greece". *Theoretical and Applied Climatology*, DOI 10.1007/s00704-014-1308-7.
24. K.P. Moustris, G.T. Proias, I.K. Larissi, P.T. Nastos, K.V. Koukouletsos and A.G. Paliatsos, 2014. "Air quality prognosis using artificial neural networks modeling in the urban environment of Volos, Central Greece". *Fresenius Environmental Bulletin*, 13, 12, pp. 2967-2975.
25. K.P. Moustris, K. Kavadias, P.T. Nastos, I.K. Larissi, A.G. Paliatsos, 2014. "Heat stress conditions in the Greek territory within the warm period of the year". *Fresenius Environmental Bulletin*, 23, 12, pp. 3068-3076.

26. K.P. Moustris, G.T. Proias, I.K. Larissi, P.T. Nastos, K.V. Koukouletsos, A.G. Paliatsos, 2015. Health impacts due to particulate air pollution in Volos City, Greece. *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering*, 51, 1, pp. 15-20.
27. K.P. Moustris, K. Ntourou, P.T. Nastos, 2017. Estimation of Particulate Matter Impact on Human Health within the Urban Environment of Athens City, Greece. *Urban Science*. 2017, 1, 6; doi:10.3390/urbansci1010006, pp. 1-11.
28. George Strotos, Ilias Malgarinos, Nikos Nikolopoulos, Manolis Gavaises, Konstantinos-Stefanos Nikas, Konstantinos Moustris, 2018. Determination of the aerodynamic droplet breakup boundaries based on a total force approach. *International Journal of Heat and Fluid Flow*, 69, pp. 164–173.
29. Moustris K., Tsiros I.X., Tseliou A. and Nastos P., 2018. Development and application of artificial neural network models to estimate values of a complex human thermal comfort index associated with urban heat and cool island patterns using air temperature data from a standard meteorological station. *International Journal of Biometeorology*, 62, 7, pp. 1265–1274.
30. Nikolopoulos D., Moustris K., Petraki E., Koulougliotis D. and Cantzos D., 2019. Fractal and Long-Memory Traces in PM10 Time Series in Athens, Greece. *Environments*, 6, 29; doi:10.3390/environments6030029.
31. Alamo D.H., Medina R.N., Ruano S.D., Garcia S.S., Moustris K.P., et al., 2019. An Advanced Forecasting System for the Optimum Energy Management of Island Microgrids. *Energy Procedia*, 159, pp. 111-116.
32. Papazoglou E., Moustris K.P., Nikas K.-S.P., Nastos P.T., Statharas J.C., 2019. Assessment of human thermal comfort perception in a non-airconditioned school building in Athens, Greece. *Energy Procedia*, 157, pp. 1343-1352.
33. Katsatos A.L., Moustris K.P., 2019. Application of Artificial Neuron Networks as energy consumption forecasting tool in the building of Regulatory Authority of Energy, Athens, Greece. *Energy Procedia*, 157, pp. 851-861.
34. K.P. Moustris, K.A. Kavadias, D. Zafirakis, J.K. Kaldellis, 2019. Medium, short and very short-term prognosis of load demand for the Greek Island of Tilos using artificial neural networks and human thermal comfort-discomfort biometeorological data. *Renewable Energy*, 147, pp.100-109.
35. V.K. Chasiotis, D.A. Tzempelikos, A.E. Filios, K.P. Moustris, 2019. Artificial neural network modelling of moisture content evolution for convective drying of cylindrical quince slices. *Computers and Electronics in Agriculture*, <https://doi.org/10.1016/j.compag.2019.105074>
36. V.K. Chasiotis, D.A. Tzempelikos, A.E. Filios, K.P. Moustris, 2020. Artificial neural network modelling of moisture content evolution for convective drying of cylindrical quince slices. *Computers and Electronics in Agriculture*, <https://doi.org/10.1016/j.compag.2019.105074>

37. Maniatis S., Nastos P.T., Moustris K., Polychroni I.D., Kamoutsis A., 2020. Human thermal sensation over a mountainous area, revealed by the application of ANNs: the case of Ainos Mt., Kefalonia Island, Greece. *International Journal of Biometeorology*, 64, 12, pp. 2033-2045.
38. Moustris K.P., Petraki E., Ntourou K., Priniotakis G., Nikolopoulos D., 2020. Spatiotemporal Evaluation of PM10 Concentrations within the Greater Athens Area, Greece. *Trends, Variability and Analysis of a 19 Years Data Series. Environments*, 7, 85, <https://doi.org/10.3390/environments7100085>
39. Darmanis, M., Çakan, M., Moustris, K.P., Kavadias, K.A., Nikas, K.-S.P. Utilisation of Mass and Night Ventilation in Decreasing Cooling Load Demand. *Sustainability* 2020, 12, 7826, <https://doi.org/10.3390/su12187826>
40. Nikolopoulos, D., Moustris, K., Petraki, E., Cantzos, D., 2020. Long-memory traces in PM 10 time series in Athens, Greece: investigation through DFA and R/S analysis. *Meteorology and Atmospheric Physics*, 133, 2, pp. 261–279
DOI 10.1007/s00703-020-00744-3
<https://doi.org/10.1007/s00703-020-00744-3>
41. Nikolopoulos D., Alam A., Petraki E., Papoutsidakis M., Yannakopoulos P., Moustris K.P., 2021. Stochastic and Self-Organisation Patterns in a 17-Year PM10 Time Series in Athens, Greece. *Entropy* 2021, 23, 307. <https://doi.org/10.3390/e23030307>.
42. Spyropoulos G.C, Nastos P.T., Moustris K.P., 2021. Performance of Aether Low-Cost Sensor Device for Air Pollution Measurements in Urban Environments. Accuracy Evaluation Applying the Air Quality Index (AQI). *Atmosphere* 2021, 12, 1246. <https://doi.org/10.3390/atmos12101246>
43. Spyropoulos GC, Nastos PT, Moustris KP, Chalvatzis KJ., 2022 Transportation and Air Quality Perspectives and Projections in a Mediterranean Country, the Case of Greece. *Land*. 2022; 11(2):152. <https://doi.org/10.3390/land11020152>
44. Nikolopoulos D, Alam A, Petraki E, Yannakopoulos P, Moustris K., 2022. Multifractal Patterns in 17-Year PM10 Time Series in Athens, Greece. *Environments*. 2023; 10(1):9. <https://doi.org/10.3390/environments10010009>

Publications in International Conferences with Proceedings

1. G. Pouloupoulou, C. Moustris, I. Tselepidaki, 1990. “Ombrothermal Classification of Some Touristic Places of Greece”. 12th Int. Cong. of Biometeorology. Vienna, Austria, August 26-September 3, Book of Abstracts pp. 162, ISBN 3-85429-105-1.
2. C. Moustris, G. Pouloupoulou, I. Tselepidaki, 1990. “Persistence of Discomfort Conditions During Summer Heat Waves Over Greece”. Third Int. Conf. on Tourist Health. World Health Organization (W.H.O.). Venice, Italy, November 14-17.

3. Argiriou, C. Balaras, E. Daskalaki, A. Gaglia, G. Gountelas, K. Moustris, M. Santamouris, M. Vallindras, 1991. "Energy Audits in Public and Commercial Buildings in Greece". 3rd European Symposium "Soft Energy at the Local Level". Chios Island, Greece, September 11-14.
4. A. Argiriou, C. Balaras, E. Daskalaki, A. Gaglia, G. Gountelas, K. Moustris, M. Santamouris, M. Vallindras, 1992. "A Survey of Indoor Air Quality In Office Buildings In Athens Greece". Proc. Int. Conference "Quality of Indoor Environment", Athens, Greece, April 28-30, pp. 587-595.
5. K. Moustris, I. Ziomas, 2006. "Use of Neural Networks for the Forecasting of Discomfort Indexes due to High Temperatures in the Greater Athens' Area". 8th International Conf. on Meteorology-Climatology-Atmospheric Physics. Athens, Greece, May 24-26, pp. 401-408.
6. K. Moustris, A.G. Paliatsos, J. Kaldellis, K. Nikolaidis I. Koronaki and K. Kavadias, 2006. "Use of Neural Networks for the Creation of Hourly Global and Diffuse Solar Irradiance Data at Representative Locations in Greece". IX World Renewable Energy Congress. Florence, Italy, August 19-25.
7. K. Moustris, P.T. Nastos, K. Priftis, I.C. Ziomas, A.G. Paliatsos, 2007. "Forecast of Childhood Asthma Admissions at Athens, Using Neural Networks". Proceedings of SECOTOX Conference and the International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE). Skiathos Island, Greece, June 24-28, SET 978-960-89090-7-6, ISBN 978-960-89818-1-2, Vol. IV, pp. 2521-2526.
8. Koronaki I., Moustris K., Kaldellis I., Paliatsos A., Kavvadias K., Lazari E., 2007. "Radiant Barriers Performance Greek Residential and Non-Residential Buildings". 2nd International Conference on Renewable Energy Sources and Energy Efficiency. ENERTECH-2007. Athens, Greece, 18-21 October.
9. Moustris K., Ziomas I., Paliatsos A.G., 2008. "Use of Artificial Neural Networks for the Forecast of Thermal Comfort-Discomfort for Three Consecutive Days During the Hot Period of the Year at Representative Locations in the Wider Region of Athens, Greece". 9th International Conference of Meteorology, Climatology and Atmospheric Physics. Thessaloniki, Greece, 28-31 May, pp. 917-924.
10. K.P. Moustris, I.X. Tsiros, I.K. Larissi and A.G. Paliatsos, 2010. "Bioclimatic conditions in the greater Athens area: Trends, Volatility and Persistence". Proceedings of the 10th International Conference on Meteorology, Climatology, Atmospheric Physics, Patras, 23-28 May, pp. 478-485.
11. I.K. Larissi, A. Antoniou, K.P. Moustris, L.G. Viras, A.G. Paliatsos, 2010. "Particulate matter PM_{2.5} concentration levels in different semi-urban sites of the greater Athens area, Greece". Proceedings of the 10th International Conference on Meteorology, Climatology, Atmospheric Physics, Patras, 23-28 May 2010, pp. 1031-1038.
12. G.T. Proias, K.P. Moustris, I.K. Larissi, A.G. Paliatsos, 2010. "Air quality in Volos area, Greece". Proceedings of the 10th International Conference on Meteorology, Climatology, Atmospheric Physics, Patras, 23-28 May 2010, pp. 1048-1055.

13. Panagiotis Nastos, Kostas Moustris, Ioanna Larissi and Athanasios Paliatsos, 2010. «Rain intensity forecast using Artificial Neural Networks in Athens, Greece». European Geosciences Union, General Assembly 2010, Geophysical Research Abstracts Vol. 12, EGU2010-7222, 2010 Vienna, Austria, 2–7 May 2010.
14. G.T. Proias, I.K. Larissi, K.P. Moustris, P.T. Nastos, A.G. Paliatsos, 2010. “Evaluation of ozone levels in Volos, Greece. The weekend effect”. Full Proceedings, in CD-ROM, of the 10th International Conference on Protection and Restoration of the Environment, 5-9 July 2010, Corfu Island, Greece, pp. 227-234.
15. K.P. Moustris, G.T. Proias, I.K. Larissi, P.T. Nastos and A.G. Paliatsos, 2010. “Bioclimatic and air quality conditions in the greater Athens area during the warm period of the year: trends, variability and persistence”. Book of Abstracts of the Second International Symposium on Green Chemistry for Environment and Health. Mykonos, Greece, September 27-29, Proceedings in CD-ROM, pp. 131-136.
16. Kosmas A. Kavadias, Athanasios G. Paliatsos, Konstantinos P. Moustris, Ioanna K. Larissi and Aristides Bartzokas, 2010. “Building Comprehensive Meteorological Data Files with the Use of Artificial Neural Networks”. World Renewable Energy Congress XI, 25-30 September 2010, Abu Dhabi, UAE, pp. 601-606
17. Proias G.T., Larissi I.K., Moustris K.P., Viras L.G., Manalis N., Nastos P.T. and A. G. Paliatsos A.G., 2011. Spatial and temporal distribution of ambient PM_{2.5} concentrations within the greater Athens area, Greece. Third International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference. 19-24 June, Skiathos island, Greece.
18. Moustris K.P., Zacharia P.T., Larissi I.K., Nastos P.T. and Paliatsos A.G., 2011. Cooling and heating degree-days calculation for representative locations within the greater Athens area, Greece. 12th International Conference on Environmental Science and Technology-CEST2011, 8-10 September, Rhodes Island, Greece.
19. Moustris K.P., Larissi I.K., Nastos P.T., Ziomas I.C., Paliatsos A.G., 2011. Ten year climatology of surface ozone concentrations within the greater Athens area, Greece. Proceedings of the 16th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region. Organized by the Mediterranean Scientific Association of Environmental Protection (MESAEP). September 24-27, Ioannina, Greece.
20. Proias G.T., Moustris K.P., Larissi I.K., Nastos P.T. and Paliatsos A.G., 2011. Meteorological impacts in the modification of PM₁₀ concentration levels in the urban area of Volos, Greece. European Aerosol Conference-EAC 2011, 4-9 September, Manchester, UK.
21. Nastos P.T., Paliatsos A.G., Larissi I.K., Moustris K.P., 2012. Development and application of Artificial Neural Networks in the forecast of maximum daily precipitation at Athens, Greece. European Geosciences Union (EGU) General Assembly 2012. 22-27 April 2012, Vienna, Austria.

22. K. Moustris, I. Larissi, P.T. Nastos, K. Koukouletsos, and A.G. Paliatsos, 2012. 24-Hours Ahead Forecasting of PM₁₀ Concentrations Using Artificial Neural Networks in the Greater Athens Area, Greece. Proceedings of the 11th International Conference on Meteorology, Climatology, Atmospheric Physics, Athens, 30 May-1 June, 2012, Vol. 2, pp. 1121-1126.
23. G. Proias, I. Larissi, K. Moustris, P.T. Nastos, and A.G. Paliatsos, 2012. Temporal Variability of Surface Ozone Concentrations in Volos, Greece. Proceedings of the 11th International Conference on Meteorology, Climatology, Atmospheric Physics, Athens, 30 May-1 June, 2012, Vol. 2, pp. 1197-1202.
24. Moustris K.P., Proias G.T., Larissi I.K., Nastos P.T., Koukouletsos K.V. and Paliatsos A.G., 2012. Artificial neural networks for surface ozone prediction in the greater Athens area, Greece. Full Proceedings, in CD-ROM, of the 11th International Conference on Protection and Restoration of the Environment, 3-6 July 2012, Thessaloniki, Greece, pp. 939-948.
25. K. P. Moustris, G. T. Proias, K. V. Koukouletsos, I. K. Larissi, and A. G. Paliatsos, 2012. Missing value estimation for PM10 concentration time series using artificial neural networks. Full Proceedings, in CD-ROM, of the Third International Symposium on Green Chemistry for Environment, Health and Development. October 3-5, 2012. Skiathos Island, Greece.
26. S.A. Kazakidis, A.I. Kokkosis, K.P. Moustris and A.G. Paliatsos, 2012. Electricity Consumption Prognosis with the Combination of Smart Metering and Artificial Neural Networks. Full Proceedings, in CD-ROM, of the 8th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion-MEDPOWER 2012. 1-3 October 2012-Cagliari, Italy.
27. G.T. Proias, K.P. Moustris, K.V. Koukouletsos, I.K. Larissi and A.G. Paliatsos, 2013. Air quality assessment in the city of Volos, Greece, by using environmental indices. Proceedings of the International Conference of « Changing Cities ». Spatial, morphological, formal and socio-economic dimensions. Skiathos Island, Greece, June 18-21, 2013. ISBN: 978-960-6865-65-7.
28. K.P. Moustris, G.T. Proias, I.K. Larissi, P.T. Nastos, K.V. Koukouletsos and A.G. Paliatsos, 2013. Air quality prognosis using artificial neural networks modeling in the urban environment of Volos, Central Greece. 17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region. September 28 to October 1, 2013, Istanbul – Turkey.
29. K.P. Moustris, K.A. Kavadias, P.T. Nastos, I.K. Larissi, A.G. Paliatsos, 2013. Heat stress conditions in the Greek territory within the warm period of the year. 17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region. September 28 to October 1, 2013, Istanbul – Turkey.
30. Kavadias K.A., Zafirakis D., Moustris K., Paliatsos A.G., Kambezidis H.D., Bartzokas A., 2013. "Development of a Greek solar map based on experimental measurements", 17th International Symposium on Environmental Pollution and its Impact on Life in Mediterranean Region, MESAEP, September 2013, Istanbul, Turkey.

31. D. Zafirakis, G. Baiocchi, K. Moustris, K. Chalvatzis, 2013. Using utility-scale storage for the regulation of wholesale electricity markets : Case study Greece. 8th International Renewable Energy Storage Conference and Exhibition (IRES 2013), Berlin, bcc Berliner Congress Center, November 18-20, 2013.
32. Larissi, I.K., Yannakopoulos, P.H., Moustris, K.P., Paliatsos, A.G., Kervalishvili, P.J., Chikhladze, G.G., 2013. PM2.5-PM10 concentration levels in the greater Athens area of Greece. In Proceedings of Nanosensory Systems and Nanomaterials-International Conference, 6-9 June , 2013, Tbilisi, Georgia.
33. Moustris K.P., Nastos P.T., Larissi I.K., Proias G.T., Paliatsos A.G., 2014. Air quality investigation within the greater Thessaloniki area, Greece. Full Proceedings, in CD-ROM, of the 12th International Conference on Meteorology, Climatology, Atmospheric Physics, Heraklion-Crete Island, 28 May-31 May, 2014, Vol. 2, pp. 277-281.
34. Moustris K.P., Nastos P.T., Larissi I.K.³, Paliatsos A.G., 2014. Assessment of biometeorological conditions within the greater Athens area. Full Proceedings, in CD-ROM, of the 12th International Conference on Meteorology, Climatology, Atmospheric Physics, Heraklion-Crete Island, 28 May-31 May, 2014, Vol. 2, pp. 272-276.
35. Paliatsos A.G., Moustris K.P., Kavadias K.A., 2014. Estimation of hourly global irradiation using artificial neural networks. Full Proceedings, in CD-ROM, of the 12th International Conference on Meteorology, Climatology, Atmospheric Physics, Heraklion-Crete Island, 28 May-31 May, 2014, Vol. 3, pp. 21-25.
36. Moustris K.P., Proias G.T., Larissi I.K., Nastos P.T., Koukouletsos K.V. and Paliatsos A.G., 2014. Assessment of potential health impacts of particulate matter in a Mediterranean coastal city. 12th International Conference on Protection and Restoration of the Environment, Skiathos Island, Greece | June 29 to July 3, 2014.
37. Zafirakis D., Moustris. K., Maragkos Ch., Stathopoulos M., Tzanes G., 2014. Development of realistic demand side management strategies using artificial neural networks for the production of informative wind speed prediction signals. World Renewable Energy Congress 13-WREC XIII, London, UK, 3-8 August, 2014.
38. Moustris K.P., Kavadias K.A., Paliatsos A.G., Ertürk F., 2014. Development and application of Artificial Neural Networks in the prognosis of global irradiation. International Scientific Conference eRA-9, Piraeus, Hellas, 22-24 September 2014.
39. Koukouletsos K., Moustris K., Paliatsos A., 2014. The impact of long scrolling web pages on users. International Scientific Conference eRA-9, Piraeus, Hellas, 22-24 September 2014.
40. Moustris K.P., Zafirakis D., Kokkosis A.I., Paliatsos A.G., Kaldellis J.K., 2014. Prediction of Electricity Load Demand in a Mediterranean Island Environment Based on the Physiologically Equivalent Temperature and Artificial Neural Networks Modeling. 9th Mediterranean Conference on Power Generation, Transmission Distribution and Energy Conversion (MedPower

- 2014). Conference Center of the Technological Educational Institute of Piraeus, Athens, Hellas, 2-5 November 2014. MedPower 2014, page 59 (5).
41. Moustris K.P., Kavadias K.A. and Paliatsos A.G., 2015. Treatment and implementation of measurements for the creation of a typical electricity consumption profile for a residential consumer. Fifth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2015) & SECOTOX Conference. 14-18 June, 2015, Mykonos Island, Greece.
 42. Moustris K.P., Kavadias K.A., Paliatsos A.G., 2015. The efficiency of artificial neural networks modelling in forecasting daily global solar irradiation one day ahead. 18th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region. September 26-30, 2015, Crete, Greece.
 43. Ntourou K., Moustris K.P., Giannouli M., Nastos P.T., Paliatsos A.G., 2016. Estimation of Hospital Admissions Respiratory Disease attributed to PM10 exposure using the AirQ model within the greater Athens area. Proceedings of the 13th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Thessaloniki, 21-23 September, 2016. Perspectives on Atmospheric Sciences, Springer International Publishing, Vol. II, pp. 1105-1110.
 44. Nastos P.T., Moustris K.P., Charalampopoulos J., Larissi J.K., Paliatsos A.G., 2016. Assessment of the thermal comfort conditions in a university campus using a 3D microscale climate model, utilizing mobile measurements. Proceedings of the 13th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Thessaloniki, 21-23 September, 2016. Perspectives on Atmospheric Sciences, Springer International Publishing, Vol. I, pp. 309-315.
 45. Zafirakis D., Moustris K.P., Alamo D.H., Medina R.N., 2016. One day-ahead prognosis of energy demand using artificial intelligence and biometeorological indices. Proceedings of the 13th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Thessaloniki, 21-23 September, 2016. Perspectives on Atmospheric Sciences, Springer International Publishing, Vol. I, pp. 335-340.
 46. Moustris K.P., Zafirakis D., Alamo D.H., Medina R.N., Kaldellis J.K., 2016. 24-hours ahead wind speed prediction for the optimum operation of hybrid power stations with the use of artificial neural networks. Proceedings of the 13th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Thessaloniki, 21-23 September, 2016. Perspectives on Atmospheric Sciences, Springer International Publishing, Vol. I, pp. 409-414.
 47. Proias G., Nastos P.T., Moustris K.P., Paliatsos A.G., 2016. Weekend - weekday effect assessment of PM10 in Volos, Greece (2010-2014). Proceedings of the 13th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Thessaloniki, 21-23 September, 2016. Perspectives on Atmospheric Sciences, Springer International Publishing, Vol. II, pp. 957-962.
 48. Moustris K.P., Kavadias K.A., Kokkosis A.I., Paliatsos A.G., 2016. One Day-Ahead Forecasting of Mean Hourly Global Solar Irradiation for Energy

- Management Systems Purposes Using Artificial Neural Networks Modeling. Proceedings of the 10th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower). 6-9 November, 2016, Belgrade, Serbia.
49. Moustris K.P., Zafirakis D., Kavvadias K.A., Kaldellis J.K., 2016. Wind Power Forecasting Using Historical Data and Artificial Neural Networks Modeling. Proceedings of the 10th Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MedPower). 6-9 November, 2016, Belgrade, Serbia.
 50. Moustris K., Kavadias K.A., Zafirakis D., Kaldellis J.K., 2018. 24hours ahead prognosis of load demand for the Greek Island of Tilos. Clean Energy in European Islands Conference. April 24, 2018. Athens, Greece.
 51. Katsatos A.L., Moustris K.P., 2018. Application of Artificial Neuron Networks as energy consumption forecasting tool in the building of Regulatory Authority of Energy, Athens, Greece. Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES18, 19–21 September 2018, Athens, Greece.
 52. Eleni Papazoglou, Konstantinos P. Moustris, Konstantinos-Stefanos P. Nikas, Panagiotis T. Nastos, John C. Statharas. Assessment of human thermal comfort perception in a non-air-conditioned school building in Athens, Greece. Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES18, 19–21 September 2018, Athens, Greece.
 53. Daniel H. Alamo, Rafael N. Medina, Santiago D. Ruano, Salvador S. García, Konstantinos P. Moustris, Kosmas K. Kavadias, Dimitris Zafirakis, Georgios Tzanes, Effrosyni Zafeiraki, Georgios Spyropoulos, John K. Kaldellis, Gilles Notton, Jean-Laurent Duchaud, Marie-Laure Nivet, Alexis Fouilloy and Sylvain Lespinats., 2018. An Advanced Forecasting System for the Optimum Energy Management of Island Microgrids. Applied Energy Symposium and Forum, Renewable Energy Integration with Mini/Microgrids, REM 2018, 29–30 September 2018, Rhodes, Greece.
 54. Georgios Tzanes, Effrosyni Zafeiraki, Christiana Papapostolou, Dimitrios Zafirakis, Moustris Konstantinos, Kosmas Kavadias, Konstantinos Chalvatzis and John K. Kaldellis. Assessing the Status of Electricity Generation in the Non Interconnected Islands of the Aegean Sea Region. Applied Energy Symposium and Forum, Renewable Energy Integration with Mini/Microgrids, REM 2018, 29–30 September 2018, Rhodes, Greece.
 55. Proias G., Nastos P.T., Moustris K.P., 2018. Temporal evolution of PM10 concentrations in the city of Volos, Greece. 14th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Alexandroupolis, 15-17 October, 2018.
 56. Spyropoulos G., Nastos P., Moustris K., Katopodis T., Ntourou K., 2018. The use of low-cost sensing for air pollution measurements in urban outdoor environments. 14th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Alexandroupolis, 15-17 October, 2018.
 57. Moustris K.P., Kladakis A., Ntourou K., Nastos P.T., 2018. Estimation of adverse health effects attributed to PM₁₀, CO, NO₂, O₃ and SO₂ exposure within the greater Athens area, Greece. 14th International Conference on

- Meteorology, Climatology, Atmospheric Physics (COMECAP), Alexandroupolis, 15-17 October, 2018.
- 58.** Moustiris K., Kavadias K.A., Zafirakis D., Kaldellis J.K., Zafeiraki E., 2018. Medium and short-term prognosis of load demand for the Greek Island of Tilos using artificial neural networks and human thermal comfort-discomfort biometeorological data. 14th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Alexandroupolis, 15-17 October, 2018.
 - 59.** Nastos P.T., Moustiris K., Nastos P.T., Charalampopoulos I., 2018. Urban green spaces versus built environment from the perspective of human thermal sensation. 14th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Alexandroupolis, 15-17 October, 2018.
 - 60.** Medrea C., Papageorgiou D.G. and Moustiris K.P., 2019. Application of Artificial Neural Networks in Steel Carburization. Second International Conference, Menoufia University, Faculty of Engineering, 16-20 March 2019, Sharm El Sheikh, Egypt.
 - 61.** Nastos P.T., Moustiris K.P., Kosmopoulos G., Salamalikis V., Kazantzidis A., 2021. Particulate Matter impacts on public health in a Mediterranean coastal city, Patras, Greece. 17th International Conference on Environmental Science and Technology. Athens, Greece, 1-4 September 2021.
 - 62.** Moustiris K.P., Nastos P.T., 2021. Prediction of ozone concentration using artificial intelligence and machine learning techniques. Proceedings of the 15th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Ioannina, Greece, 26-29 September, 2021, pp. 112-116. ISBN ISBN 978-960-233-267-2.
 - 63.** Ntouro K.S., Manousakis N.M, Moustiris K.P., 2021. Estimation of chronic bronchitis incidence in adults due to PM10 exposure in Athens, Greece. Proceedings of the 15th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Ioannina, Greece, 26-29 September, 2021, pp. 118-122. ISBN ISBN 978-960-233-267-2.
 - 64.** Spyropoulos G., Nastos P.T., Moustiris K.P., 2021. Low-cost portable air quality sensing device quantify human exposure in city environment. Proceedings of the 15th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Ioannina, Greece, 26-29 September, 2021, pp. 155-159. ISBN ISBN 978-960-233-267-2.
 - 65.** Proias G.T., Nastos P.T., Moustiris K.P., 2021. Spatial-temporal variation of particulate matter and adverse health effects in the greater Volos area, Greece. Proceedings of the 15th International Conference on Meteorology, Climatology, Atmospheric Physics (COMECAP), Ioannina, Greece, 26-29 September, 2021, pp. 135-138. ISBN ISBN 978-960-233-267-2.
 - 66.** Rodanas D.-M., Moustiris K.P., Spyropoulos G., Nastos P.T., 2022. Experimental investigation of suspended particles levels inside the stations and trains of Athens city Metro network, Greece. Mediterranean CLImate VARiability and predictability conference, MEDCLIVAR 2022, October 4-8, 2022, Marrakech – Morocco.
 - 67.** Spyropoulos G., Moustiris K.P., Nastos P.T., Chalvatzis K., 2022. The contribution of electric vehicles to the reduction of thermal emissions to the

urban environment. Mediterranean CLImate VARIability and predictability conference, MEDCLIVAR 2022, October 4-8, 2022, Marrakech – Morocco.

Publications in National Conferences with Proceedings

1. I.K. Larissi, G.A. Antoniou, A. Antoniou, K.P. Moustris, A.G. Paliatsos, 2009. Evolution of the concentration levels of particulate matter in the greater Athens area. 21st National Congress of the Greek Operational Research Society (EEEE), Athens, 28-29 May, Vol. B, pp. 973-987.
2. K.P. Moustris, I.K. Larissi and A.G. Paliatsos, 2009. Rainfall prediction for four consecutive months in Athens and Alexandroupolis using artificial neural networks. Proceedings of the 6th National Congress of the Society of Agricultural Engineers of Greece (E.Γ.M.E.), Thessaloniki, 8-10 October 2009, pp. 67-74.
3. Panagiotis Nastos, Kostas Moustris, Ioanna Larissi and Athanasios Paliatsos, 2010. Forecast of rain intensity in Athens, using artificial neural networks. 9th Hellenic Geographical Conference of the Greek Geographical Society. Harokopion University of Athens, Department of Geography. 4-6 November, Athens, Greece.
4. Moustris K.P., Larissi I.K., Antoniou G.A., Antoniou A., Kokkossis A., Paliatsos A.G., 2011. Application of Regression Analysis Models and Artificial Neural Networks in order to predict the maximum daily concentration of surface ozone in the greater Athens area. Proceedings of the 1st National Congress of the Hellenic Mathematical Society and the Hellenic Operational Research Society. Applications of Mathematics in Management, Economics, the Production and Education. June 24-25, Athens, Greece.
5. Theodorakopoulou S., Karanassou E., Houndi M., Xoundis P., Roumbeas X., Mpakalis N. and Moustris K., 2012. Extracorporeal circulation engine. The machine that changed the history of medicine (The Heart-Lung machine). Proceedings of the 4th Congress of Messenian Health. 17-18 February 2012, Kalamata, Greece.
6. Moustris K.P., Kavadias K.A., Zafirakis D., Kaldellis J.K., Paliatsos A.G., 2014. Prediction of the available daily total solar radiation in a horizontal plane using historical data and artificial intelligent. 10th National Conference on Soft Energy (in memory of Kyriakis Nikos), Thessaloniki, Hellas, 26-27 November 2014.
7. Proias G., Chalkos G., Moustris K., Nastos P., Paliatsos A., 2015. The economic costs of human health impacts due to particle pollution in the city of Volos. Proceedings of the 3rd National Conference Economics, Natural Resources and Environment, Volos, 30-31 October 2015.
8. Kavadias K., Karamanou A., Kampepidis Ch., Moustris K., 2018. Exploitation of typical meteorological year time series for the optimal dimensioning of autonomous photovoltaic systems. 11th National Conference on Soft Energy. Thessaloniki, Greece, 14-16 March, 2018

Citations

References to my published papers in scientific journals by other scientists totalling the number of 953 (<http://www.scopus.com/results/handle.url>) with an index of h=16 (SCOPUS) and the number of 1634 with an index of h=19 (Google Scholar).

(<https://scholar.google.com/citations?user=S55RGRgAAAAJ&hl=en>)

(December, 2022)

Reviewer in International Journals

Over the past ten years, I have completed at least 70 articles reviews for publication in the following peer-reviewed journals:

- ❖ Advances In Meteorology
- ❖ Air Quality, Atmosphere and Health
- ❖ Atmosphere
- ❖ Atmospheric Pollution Research
- ❖ Atmospheric Research
- ❖ British Journal of Mathematics & Computer Science
- ❖ Energies
- ❖ Environment Development and Sustainability-ENVI
- ❖ Environmental Modeling and Assessment
- ❖ Fresenius Environmental Bulletin
- ❖ Frontiers in Public Health
- ❖ Journal of Climatology-JOC
- ❖ Journal of Molecular Sciences
- ❖ Journal of Cleaner Production
- ❖ Journal of Environmental Research and Public Health
- ❖ Journal of Environmental Science and Technology -JEST
- ❖ Journal of Global Environmental Issues
- ❖ Journal of Scientific Research and Reports
- ❖ Journal of Taibah University for Science-JTUSCI
- ❖ Journal of Wind Engineering & Industrial Aerodynamics
- ❖ Neural Computing and Applications Journal
- ❖ Renewable Energy Journal
- ❖ Stochastic Environmental Research and Risk Assessment-SERR
- ❖ The Scientific World Journal
- ❖ TOXICS
- ❖ Water, Air & Soil Pollution-WATE

Electronic Computers Experience

Software development, design and implementation on issues related to research and educational applications in DOS and WINDOWS environment.

Programming Languages: FORTRAN, BASIC, Q-BASIC

Software Products: Windows XP, 2003, 2000, 98, NT, 95, 3.1 (Word, Excel, Power Point, Origin, Microsta, Statistica, etc.).

Software Products: Artificial Intelligence - Artificial Neural Networks (Neurosolutions/Neurodimensions).

Foreign Languages

English “Certificate of Competency in English”, University of Michigan.

Military Obligations

During the years 1992-1993 I was fulfilling my military obligation by serving the Greek Air Forces as a Meteorologist.

Member of Institutions & Comities

- Member of the Greek (Hellenic) Meteorological Society (HMS). Board member of the Greek Meteorological Society (2011-2013; 2013-2015 & 2015-2017).
- Member of the Balkan Environmental Association (B.EN.A)
- Member of the three-member Steering Committee of the Master's Degree Program (MSc) "Energy & Environmental Investments" organized by the department of mechanical Engineering, University of Western Attica, Athens, Greece.
- Member of the Organizing Committee of the 11th International Conference on Meteorology, Climatology and Atmospheric Physics, jointly organized by the Department of Physics, University of Athens, the Greek Meteorological Society and the Mariolopoulos Kanaginis-Environmental Science Foundation. May 30-June 1, 2012. Athens, Greece.
- Expert on the final audit of research projects. General Secretariat for Research & Technology. Ministry of Education, Research & Religious Affairs. Gov. 301 / Ministry of Economy and Finance/10-06-2016 "Designation of experts for the control of the physical and economic object of the projects of the" Bilateral R & T Cooperation between Greece and Hungary 2009 ", of the Action for Bilateral-Multilateral and Regional R & T Partnerships.
- Member of the Organizing Committee of the "Conference-Clean Energy in European Islands", ATHENS APRIL 23-24, 2018, organised by the Soft Energy Applications and Environmental Protection Laboratory of UNIWA (www.sealab.gr) along with SAPIENZA, CRES, UNIZAG and CEA, all partners of PRISMI –INTEREG Project (<https://prismi.interreg-med.eu/>).
- Member of the Organizing Committee of the 14th International Conference on Meteorology, Climatology and Atmospheric Physics, jointly organized by the Democritus University of Thrace, the Greek Meteorological Society and the Mariolopoulos Kanaginis-Environmental Science Foundation. October 15-17, 2018, Alexandroupolis, Greece.
- Member of the Organizing Committee of the 15th International Conference on Meteorology, Climatology and Atmospheric Physics, jointly organized by the

University of Ioannina, the Greek Meteorological Society and the Mariolopoulos Kanaginis-Environmental Science Foundation. September 26-29, 2021, Ioannina, Greece.

▪ Chairman of the Organizing Committee of the 16th International Conference on Meteorology, Climatology and Atmospheric Physics, jointly organized by the University of West Attica, the Greek Meteorological Society and the Mariolopoulos Kanaginis-Environmental Science Foundation. September 25-29, 2023. Egaleo, Athens, Greece.

Athens, 2022

Dr Konstantinos P. Moustris