

Europass curriculum vitae

Personal information

Surname(s) / First name

DIMOUDI Argiro

Address

Department of Environmental Engineering, Democritus University of Thrace
12, Vas. Sofias Str., Xanthi, Greece

Telephone

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Fax : +30.25410.79.388

E-mail

adimoudi@env.duth.gr

Nationality

Greek

Gender: Female

Desired employment / Occupational field

Work experience

Dates

Today-2020 / 2020- 2015 / 2015-2010 / 2010-2005

Occupation or position held

Professor / Associate Professor / Assistant Professor / Lecturer

Main activities and responsibilities

Director of Environmental and Energy Design of Buildings and Settlements Laboratory

Teaching, Research on 'Science and technology of constructions with emphasis on the environmental design'

Name and address of employer

Department of Environmental Engineering, Democritus University of Thrace (GR)

Dates

2001–2005

Occupation or position held

Specialized Scientific Staff

Main activities and responsibilities

Legislation and policy issues related to energy and buildings

Name and address of employer

Ministry of the Environment, Physical Planning and Public Works, Division of Housing Policy and Shelter (GR).

Type of business or sector

Ministry

Dates

1998- 2001

Occupation or position held

Head of the Department of Passive Solar and Hybrid Solar Systems and of the Department of Active Solar Systems, Division of Applied Research and Technology Development

Main activities and responsibilities

Management of the department, Coordination, management and execution of research projects

Name and address of employer

Centre for Renewable Energy Sources (CRES)

Type of business or sector

Research Institute

Dates

2001 – 2009 (PSP51) / 2010 – 2011,2016-2017 & 2019-2020 (PSPDE), 2017-18 (PSP61)

Occupation or position held

Teaching Staff

Main activities and responsibilities

Tuition, Dissertation Supervision

Name and address of employer

Greek Open University, MSc Course 'Environmental Design of Cities and Buildings' (GR)

Type of business or sector

Educational Institute

Dates 1996-1997 /1997-2002
 Occupation or position held **Part-time Lecturer / Part-time Ass. Professor**
 Main activities and responsibilities Teaching
 Name and address of employer Laboratory of Fluid Flow and Laboratory of Renewable Energy Sources, School of Mechanical Engineering, Technological Educational Institute of Piraeus (GR)
 Type of business or sector Educational Institute

Dates 1993-1996
 Occupation or position held **Researcher Associate**
 Main activities and responsibilities Execution of SAVE, ALTENER projects and educational projects
 Name and address of employer Central Institution for Energy Efficiency Education (CIENE) - University of Athens (GR).
 Type of business or sector Educational- Research Institute

Education and training

Dates **1997 :**
 Title of qualification awarded PhD
 Principal subjects PhD Thesis : '*Investigation of the Flow and Heat Transfer in a Solar Chimney*'
 Name and type of organisation providing education and training School of Architecture and Building Engineering, University of Bath (UK).

Dates **1989**
 Title of qualification awarded MSc
 Principal subjects 'Energy and Buildings'
 Name and type of organisation providing education and training School of Mechanical Engineering, Cranfield Institute of Technology (UK).

Dates **1986**
 Title of qualification awarded Diploma of Civil-Structural Engineer
 Principal subjects Diploma Dissertation: '*Study and Application of the 'SLR' and '5000' Methods on Buildings with Attached Sunspace*'
 Name and type of organisation providing education and training Department of Civil Engineering, Aristotle University of Thessaloniki (Greece).

Personal skills and competences

Mother tongue(s)
 Other language(s)

Self-assessment
European level ()*

Language
Language

Greek

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
English - C2	English - C2	English - C2	English - C2	English - C2

(*) Common European Framework of Reference (CEF) level

Excellent communication skills during projects' execution and in academic obligations. She has also

Communication skills	organized and participated at training courses and information dissemination activities
Organisational / managerial skills	Excellent project management skills. She has successfully co-ordinated, managed several energy related research and consulting projects.
Job-related skills	26 years of professional experience in the field of energy efficiency, renewable energy, energy policy, bioclimatic design of outdoor spaces, climate change mitigation,
Other professional experience	<p>Dr Dimoudi is a Civil-Structural Engineer with a Ph.D. and MSc on 'Energy and Buildings'. Her area of specific expertise is RES and Energy Efficiency in Buildings, ranging from technical analysis and studies on EE and RES for buildings and settlements, energy legislation/regulations, energy audits, policy issues and market analysis.</p> <p>She has sound experience as co-ordinator, project manager and researcher in research, demonstration and non-technological projects on RES and energy efficiency in buildings and settlements. She successfully co-ordinated, supervised and managed more than 13 EU and national projects.</p> <p>She has long experience on research, studies and as an energy consultant on the design and rehabilitation measures in buildings, monitoring and simulations. She has tangible experience in the development of regulations and legislation related to energy efficiency in buildings, as well as transposition of EC Directives to national legislation, especially EPBD. She was the project manager of the project "Provision of consulting services for the definition of the Nearly Zero Energy Residential Buildings in Cyprus" that aimed to assist the Ministry of Commerce, Industry and Tourism of Cyprus to transpose recast EPBD to the legal framework of Cyprus. She was member of the working groups of the Technical Chamber of Greece (TCG) for the development of the Technical Guides (TG.TCG) in support of the 'National Regulation for Energy Efficiency of Buildings' to transpose EPBD to Greek building regulations.</p> <p>She was national representative in the 'Energy Demand Management Committee' of the E.C. for the E.C. Directive 2002/91/EC 'Energy Performance of Buildings' (2003–2005), the representative of the Ministry of the Environment in the OECD Programme 'National Environmental Policies' (2001–2005), a member of the National Board in the 19th Session of the Governing Council of the UN Programme for 'Human Settlements – UN HABITAT', Nairobi (Kenya), May 2003 (period of Greek EC Presidency – coordination of all EC countries).</p> <p>Her experience is as academic staff, specialized scientific staff at the Ministry of the Environment, researcher at Research Bodies and as the Head of the Department of Passive & Hybrid Solar Systems and of the Department of Active Solar Systems at the Centre for Renewable Energy Sources (CRES).</p> <p>She has developed training and educational material, lectures, dissemination & public awareness campaigns in the field of RES and Energy Efficiency in Buildings. Additionally, she has experience in organisation of stakeholder consultations for buildings energy performance. She has organized and participated in numerous Seminars, Conferences on Energy Efficiency issues. She is author of several papers, books & Technical Reports.</p>

EVALUATOR

European programmes

- CT-EX2002B037878-102, Bioclimatic approaches for improving energy performance in buildings in Africa & Europe, Horizon 2020, Oct – Nov. 2019, Brussels.
- Horizon 2020-LCE-3-2015 Renewable Heating & Cooling: Demonstration of solar technologies for residential and non-residential buildings, Horizon 2020, May-July 2015, Brussels.
- Evaluation of a Research Project outcomes, Thematic area: Energy efficiency in Buildings", European Territorial Development Funds & Centre for Research Promotion (Cyprus), Oct–Nov. 2013
- CIP ECO-INNOVATION programme "Eco-innovation pilot projects and market promotion", Thematic area 'Buildings', 7FP, Oct-Dec 2010, Brussels
- CIP ECO-INNOVATION programme, Thematic area 'Buildings', 7FP, Oct-Dec 2009, Brussels
- 'SouthEastern European Transnational Cooperat Programme 2007–13, 7FP, Dec 2008-Jan 09

- CIP ECO-INNOVATION programme, Thematic area 'Buildings', 7FP, Nov-Dec 2008, Brussels (Contract No EACI/2008/001, EX2008C000883).
- SAVE Programme, Thematic area 'Buildings', 25-29 July 2001, Brussels (Contract No SA-D/10/06-2001).
- ENERGIE Programme of the 5FP, Thematic area 'Buildings', 5-9 July 1999, Brussels (Contract No ENEV-CT1999-1-0035).

National programmes

Member of Boards

- Vice President, Thematic Committee on the Scientific area 'Environment & Energy', Evaluation of proposals of the '1st Call for Research Projects for support of new Researchers', Greek Foundation for Research and Innovation (ELIDEK), 2017.
- Vice President, Thematic Committee on the Scientific area 'Environment & Energy', Evaluation of proposals of the '1st Call for Research Projects for support of Academic Staff & High budget scientific equipment – Phase A', Greek Foundation for Research and Innovation (ELIDEK), 2018-19.
- Vice President, Thematic Committee on the Scientific area 'Environment & Energy', Evaluation of proposals of the '1st Call for Research Projects for support of Academic Staff & High budget scientific equipment- Phase B', Greek Foundation for Research and Innovation (ELIDEK), 2018-19.
- Member, Cross-Thematic Committee, Evaluation of proposals of the '1st Call for Research Projects for support of Academic Staff & High budget scientific equipment', Greek Foundation for Research and Innovation (ELIDEK), 2019.
- Member, Thematic Committee on the Scientific area 'Environment & Energy', Evaluation of proposals of the '2nd Call for Research Projects for support of new Researchers', Greek Foundation for Research and Innovation (ELIDEK), 2019.

Evaluator

- National Strategic Development Programme (ESPA) 2007-2013, "Green Roofs at Public Buildings", Febr-May 2013, Athens (Greece).
- National Strategic Development Programme (ESPA) 2007-2013, "Eksikonomo" (Energy Savings in Public Buildings), July 2011, Athens (Greece).
- 'Co-operation' Programme, ESPA 2007-2013, Operational Programme «Competiveness & Enterprinship in Regions in Transit», March-April 2010, GSRT, Athens (Greece).
- Research Committee, School of Engineering of Crete (Greece), 2007.
- Evaluation Committee of Conferences of the year 2000, Athens, General Secretary of Research and Technology Development (Greece).

PROFESSIONAL SERVICE

- National Representative (2 National Representatives) in the 'Energy Demand Management Committee' of the European Commission for the E.C. Directive 2002/91/EC 'Energy Performance of Buildings' (2003 – 2005).
- Member of the National Board in the 19th Session of the Governing Council of the United Nations Programme for 'Human Settlements – UN HABITAT', Nairobi (Kenya), 5-9 May 2003. Period of Greek EC Presidency – coordination of all European countries (1st Semester 2003).
- Member of the trans-ministerial Committee for the 'Monitoring and coordination of actions for the air pollution reduction in the Attica basin' (2003).
- Representative of the Ministry of the Environment, Physical Planning and Public Works in the OECD Programme 'National Environmental Policies' (2001– 2005).

PARTICIPATION AT WORKING GROUPS

- 2010, 2017: Member of the working group of the Technical Chamber of Greece (TCG) for: the development of Technical Guides (TG.TCG) in
 - support of the 'Regulation for Energy Efficiency of Buildings' (2014) and

- Recast of EPBD (2017):
 - TG.TCG on “Analytical national specifications for parameters for calculation of the energy performance of buildings and for the issue of the energy certificate: i) Specifications for the building’s envelope parameters
 - T.G.TCS 20701-2 / 2010 ‘Thermophysical properties of structural materials and assessment of the thermal insulation requirements of buildings’
 - TG. TCG on ‘Bioclimatic architecture’ (to be published)
 - Setting the ‘Procedure for the certification of the energy auditors’
 - Development of educational material for the examinations for certification of energy auditors
 - 2004: Member of the working group of the Technical Chamber of Greece ‘Insulation materials’.
 - 2003: Member of the working group of the ‘Association of the Engineers of the Public Sector’.
- Compilation of analytical curriculum for training seminars for engineers in the public sector.
 Modules: Z5-17 – Environmental policy and design &
 Z5.19 – Environmental design of cities and buildings.

MEMBER OF CONFERENCE COMMITTEES

- Member of the Scientific Committee, 13th International Conference on “Energy and Climate Change”, Athens, Greece, 7-9 Oct 2020.
- Member of the Scientific Committee of the 4th International Conference on “Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions” Chania, Greece, 24-29 June 2019.
- Member of the Scientific Committee of the 3rd Intern Conference on “Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions” Syros, Greece, 26-30 June 2017.
- Member of the Scientific Committee of the 2nd Intern Confer on “Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions” Porto Heli, Peloponnese, Greece, 22-26 June 2015.
- Member of the Scientific Committee of the 3rd International Conference “ENERGY in BUILDINGS 2014”, ASHRAE Hellenic Chapter – Technical Chamber of Greece, Athens, 15 November 2014.
- Member of the Organizing & Scientific Committee of the 2-Days Scientific Seminar ‘Energy and Buildings’, Technical Chamber of Greece, Thrace Division and East Macedonia Division, DUTH, Xanthi, 7-8 Sept 2012.
- Member of the Local Support Committee of the 3rd International Conference on ‘Building Low Energy Cooling and Advanced Ventilation Technologies in the 21st Century’, PALENC & EPIC 2010 & 1st Cool Roof Conf., Rhodes (GR), 29 Sept. – 2 Oct. 2010.
- Member of the Organising Committee of the 2nd International Workshop ‘Energy Performance and Environmental Quality of Buildings’, Milos, 12-13 July 2007.
- Member of the Local Support Committee of the 2nd International Conference on ‘Building Low Energy Cooling and Advanced Ventilation Technologies in the 21st Century’, PALENC and AIVC, Rethimno (GR), 27-29 September 2007.
- Member of the Local Support Committee of the 1st International Conference on ‘Passive and Low Energy Cooling for the Built Environment’, AIVC & INIVE, Santorini (GR), 19-21 May 2005.
- Member of the Scientific Committee of the 7th National Conference on ‘Alternative Kinds of Energy’, I.S.T, Patra (GR), 6-8 November 2002.
- Member of the Scientific Committee of the International Conference on ‘Passive Cooling of Buildings’, EC-DG XVII for Energy, SAVE Programme, CIENE - University of Athens, Athens, 19-20 June 1995.
- Member of the Scientific Committee of the International Conference on ‘Training and Education in the Energy Field’, EC-DG XVII for Energy, SAVE Programme, CIENE - University of Athens, Athens, 22-23 May 1995.
- Chair person at International and National Conferences.

EDITORIAL BOARD MEMBER

- Environmental Processes (Springer)
- The Open Construction and Building Technology Journal (Bentham Open)
- Space-writing (Depart, of Civil Engineering & Dep. of Surveying Engineering and Geo-information of Technological Education, Technological Educational Institute of C. Macedonia (Greece)

MEMBER OF PROFESSIONAL ASSOCIATIONS

- Member of the Technical Chamber of Greece.
- Member of the Greek Civil Engineers' Association.
- Member of the Greek Forum for 'Renewable Energy Sources Dissemination' (ELFORES).
- Vice – President of the Greek Section of the International Solar Energy Society (ISES) (2000).

OTHER SCIENTIFIC SERVICE

- Member of the examiners' board of the Technical Chamber of Greece for Civil Engineers' professional permission (June and October 2003).

DISTINCTIONS

- Scholarship for postgraduate studies (1989- 1991), Institution of State Scholarships (IKY)
- **Best Publication Award:** Dimoudi A., Nikolopoulou M-E. (2000). Vegetation in the Urban Environment: Microclimatic Analysis and Benefits. PLEA 2000 Intern. Conferen: Architecture City Environment, Cambridge (UK), 2-5 July, James & James Ltd, pp. 489-494, ISBN 1-902916-16-6.
- **OIKOPOLIS Award 2016** - Awards on Environmental Awareness, Section Master's Theses in the subject "Settlements": Karakounos I., (2015) "The influence of bioclimatic redevelopment outdoor space in the outdoor thermal comfort and energy efficiency of buildings 'MSc on 'Environmental Engineering and Science' , Department of Environmental Engineering, University of Thrace.
- **OIKOPOLIS Award 2018** - Awards on Environmental Awareness, Section Master's Theses in the subject "Energy": Toumpoulides P., (2017) "Investigation of the efficiency and applications of solar air collectors in structures" 'MSc on 'Environmental Engineering and Science', Department of Environmental Engineering, University of Thrace.
- **Guest Editor**, "Low Energy Social Housing", Special Issue, Energy and Buildings, 2017-2018.

PARTICIPATION in E.C. and NATIONAL PROJECTS

Co-ordinator

- A. ZenH Balkan - Towards Zero energy Hospitals in the Balkan Region** (6,5 man-months)
Financing: EC – ERDF, Interreg Balkan Med Programme, Period: Dec 2017 – May 2021.

The project aims to facilitate the implementation of the EPBD by defining the characteristics and Standards for Zero Energy Hospitals in the South Balkan region.

- B. AIRinSTRUCT - Integration of Advanced Ventilated Building Components and Structures for Reduction of Energy Consumption in Buildings.**

Financing: EC DGXII, CRAFT-JOULE Programme, Period: 1998-2000.

Technical and market analysis to investigate the applicability of different ventilated building components for energy efficiency for buildings. Project co-ordination; Supervision - collaboration for the design, construction & testing at CRES outdoor experimental facilities of different building ventilated components: ventilated facade, ventilated roof, dynamic insulated wall.

Project Manager

- 1. CULTURAL DIPOLE – Creation of a cultural dipole in the cross border area** (1,7 man-month)

Financing: EC – ERDF, Interreg Greece - Bulgaria Programme, Period: Sept 2017 – Nov 2021

Redevelopment of a listed barrack building into an Art Gallery of Nearly Zero Energy. Energy efficiency measures combined with RES technologies will transform the building into almost zero energy building. Responsible for the energy upgrade of the building, simulations and monitoring.

- 2. Development and pilot application of innovative methodologies for performing techno-economical studies on the energy upgrade of public buildings and smoothing the heat island effect in the frame of the REPUBLIC – MED Project.**

Financing: CRES - EXERGIA. Period: September 2014 – June 2015.

Project management, development of methodology, application in existing case studies, results

assessment, dissemination.

3. Provision of consulting services for the definition of the Nearly Zero Energy Residential Buildings in Cyprus

Financing: Ministry of Commerce, Industry & Tourism, Cyprus - EXERGIA, Period: June 2011 – February 2012

Transposition of the recast EPBD (2010/31/EU) to the legal framework of Cyprus and upgrade the national building codes by launching a policy of Nearly Zero Energy Residential Buildings, so that all new residential buildings will be nearly zero energy as of 2020. Project Management; review of local technical context; market analysis; energy simulations; participation in the stakeholder consultations

4. Investigation of bioclimatic upgrade of open spaces in the urban area of Serres

Financing: Serres Municipality -BEEB, Period: Oct-Dec 2011 / Jan 2016 – Dec 2016

Redevelopment of an area in a city center with bioclimatic criteria in order to improve microclimate and outdoor human comfort conditions. Energy consultant in the design and implementation of the interventions and responsible for measurements and simulations.

- Design: Oct – Dec 2011,
- Implementation: January 2015 – December 2016

5. EUBART – European Bioclimatic Architecture

Financing: EC - DG TREN, Energie Programme, 5th FP, Period: 2001 – 2002 (for the period 2001).

Demonstration of energy and RES technologies in public buildings; Collaboration for:

- Selection of a demonstration building in Greece and identification of suitable energy and RES systems to be applied for energy upgrade.
- Simulation of building's energy performance

6. Altener Cluster 9: Solar Passive Heating and Cooling, Part III.

Financing: EC - DG TREN, Altener Programme, Period: 2001-2002 (for the period 2001).

Development of a handbook and design guidelines for roof cooling techniques. Project Manager; Contribution at the development of a handbook and design guidelines for roof cooling techniques.

7. SSHORT - Sustainable Social Housing Refurbishment Technologies

Financing: EC - DG TREN, Energie Programme, 5th FP, Period: 2000 – 2002 (for the period 2000-01).

Investigation of the possibilities for increase of the rational and efficient energy use during refurbishment of social houses. Project management; Collaboration for:

- Technical analysis to identify the refurbishment needs in social houses in Greece.
- Market analysis regarding technologies for sustainable energy use and create criteria for multidiscipline decision making in refurbishment.
- Simulating the performance of SWHS in representative social houses in the participant S. European countries.

8. IQ-Test - Improving Quality in Testing and Evaluation of Solar and Thermal Characteristics of Building Components

Financing: EC- DG Research, Energie Progr, 5th FP, Period: 2000-2002 (for the period 2000-01).

Development of common quality procedures for testing and calibration in the PASLINK outdoor test facilities. Transfer of testing results and application in real scale in buildings. Project management; Collaboration for:

- the development of common quality procedures for testing and calibration in the PASLINK outdoor test facilities
- collection, cleaning and analysis of testing data

9. EnerBuild - Energy in the Built Environment

Financing: EC DG Research, Energie Progr, 5th FP, Period: 2000 – 2002 (for the period 2000-01).

The thematic network aimed at improvement of collaboration among research and technological development projects on issues of energy in the built environment in the frame of the 4th and 5th FP of EC. Project management; Collaboration for the development of common dissemination material with information from completed and on-going research and technological development projects on

energy in the built environment in the frame of the 4th and 5th FP of EC.

10. BySyS - Building Energy Management with Smart Systems

Financing: EC DGXII, JOULE Programme, Period : 1998 – 2000

Determination of the theoretical definition of energy savings, thermal and visual comfort control strategies, with the corresponding algorithms, for the management of an EIB-controlled building. Project management; Determination of the theoretical definition and corresponding algorithms of energy savings, thermal and visual comfort control strategies for the management of an EIB-controlled building.

11. PRECis - Assessing the Potential of Renewable Energy in Cities.

Financing: EC DGXII, JOULE Programme, Period : 1998 – 2000

The project aimed at the assessment of the potential of application of renewable energy sources in cities. Project management; Collaboration for characterization of the microclimate and environmental parameters that influence energy consumption and RES application at urban buildings. Detailed analysis of vegetation influence on microclimate condition in urban spaces.

12. K.P.S. 3.3.5 - Development of a New Laboratory for Building Energy Performance Testing and Indoor Microclimate.

Financing: EC Structural Funds, Period: 1998 – 2001

Development of new laboratory facilities for testing of energy efficiency and RES systems in buildings.

13. ROOFSOL–Roof Solutions for Passive Solar Cooling of Buildings in the Mediterranean Region

Financing : EC DGXII, JOULE Programme, Period : 1997- 1998

Experimental work and modelling of passive solar cooling systems for buildings.

Researcher

14. PAES - Transfer of Best Practices

Financing: ERASMUS+, Duration: Sept 2015 – Oct 2018

Creation of an e-learning platform for SCORM (sharable content object reference model), a virtual model where education material and technical specifications for sustainable building were collected.

15. Urban Regeneration and Green Design

Financing: "Education and Lifelong Learning"- Ministry of Education Duration: Apr 2014 - June 2015

16. Pilot Zero CO₂ emissions agro-livestock settlement of Elaionas, Serres Municipality

Financing : Serres Municipality, Period: April - December 2012

"Development of a Pilot Zero CO₂ emissions agro-livestock settlement at Elaionas, Serres Municipality. Responsible for the study of energy efficient measures and RES applications in buildings (simulations, techno-economical study, audits, technical specifications)

17. Research study of the microclimate and bioclimatic redevelopment of the open space of Polykentro, Ptolemaida

Financing: Eordaias Municipality, Period: Oct-Dec 2011

18. Development of the studies program of the Depart. of Environmental Engineering, DUTH

Financing: EPEAK II, Measure 2.2: Restructure of undergraduate studies program, Period: 2006-08.

19. RUROS – Rediscovering the Realm of the Open Spaces

Financing: EC-DG Research, City of the Future Progr, 5th FP, Period: 2001-2003 (for period 2001).

20. Development of an Energy Management System for Hotels with Standard Sensor / Actuator Components and the European Installation Bus

Financing : EC DGXII, JOULE-CRAFT Programme, Period : 1999 - 2000

21. Energy and Architecture

Financing: EC DGXII, THERMIE Programme, Period : 1997

22. Training Courses and Information on Optimal Control Design of Bioclimatic Buildings.

Financing : EC DGXVII, ALTENER Programme, Period : 1995 –1996

23. Training Courses on Passive Cooling Applications on Building Design for Mediterranean

Countries Architects.

Financing : EC DGXVII, ALTENER Programme, Period : 1995 -1996

24. Training and Information Activities Regarding the Application of the European Codes - Technical Standards and Laws Related to Passive Solar Energy and Energy Conservation in Buildings

Financing : EC DGXVII, ALTENER Programme, Period : 1995 –1996

25. Creation of an Educational Structure on the Energy Efficiency of Cooling Systems and Techniques for Buildings

Financing: EC DGXVII, SAVE Programme, Period : 1994 –1995

26. Development of a network of educational institutes from third countries for energy efficiency in buildings

Financing: EC DGXVII, Programme SAVE, Duration : 1994 -1995

27. Short Educational Structure on Energy Efficiency in Buildings

Financing : CEC DGXVII, SAVE Programme, Period : 1993 -1994

28. REBUILD Network - Rehabilitation of Old Buildings in Corfu with Use of Renewable Energies

Financing : CEC DGXV, RECITE-REBUILD Programme, Period : 1993- 1994

29. Passive Solar Architecture and Possibilities of Commercial Exploitation by Local Authorities

Period: 1988, Civil Engineering Dep., School of Engineering, Aristotle University of Thessaloniki

Supervision of the projects at the Ministry of the Environment, Physical Planning and Public Works (MINENV)(2002 -2005)

1. 'Compilation of the Regulation on the rational use and savings of energy. Undertaken by: Centre for Renewable Energy Sources (GRES).
2. 'Investigation of support policy measures for the promotion of the MINENV policy on the reduction of CO₂ emissions at the residential – tertiary sector. Undertaken by: National Observatory of Athens.
3. 'Promotion of an overall energy planning of new and existing buildings in the public sector Undertaken by: GRES.
4. 'System of comparative analysis of energy technologies in buildings of the residential and tertiary sector. Undertaken by: National Technical University of Athens.

SCIENTIFIC PUBLICATIONS

Citations Table: (11/05/2021)

Database	No of cited Documents	No of citations	No of citations (excl. authors' self-citations)	h / h ₁₀ Index
Google Scholar	50	2.082	---	16 / 20
Scopus	40	1.192	1.142	14

International Books

1. **Dimoudi A.**, Zoras S., 'The role of buildings in the energy systems.
2. Zoras S., **Dimoudi A.**, 'Modelling bioclimatic interventions in outdoor spaces' In: "Energy Performance of Buildings - Energy Efficiency and Built Environment in Temperate Climates". (2016). Santamouris M., Boemi N.-S., Irulegi O. (Eds), Springer
3. Zoras S., **Dimoudi A.** 'Exploiting earth cooling to mitigate heat on cities' scale', In: 'Urban Climate Mitigation Techniques' (2016). Santamouris M., Kolokotsa D. (Eds), Taylor and Francis, eISBN: 9781315765839.
4. Santamouris M. and D. Asimakopoulos (Eds), A. Argiriou, C. Balaras, E. Dascalaki, A. **Dimoudi**, D. Mantas, I. Tselepidaki. (1996). Passive Cooling of Buildings. London: James & James

(Sciences Publ.) Ltd, ISBN 1 873936 47 8.

Author of Chapters:

Chapter 2: 'Passive Cooling of Buildings' (pp.35-55), Chapter 4: Microclimate (pp.84-94), Chapter 5: Urban Design (pp.95-128), Chapter 10 (A. Dimoudi D. Mantas): Solar Control (pp. 307- 359)
(Citations 244)

4. **Dimoudi A.**, G. Panno, M. Santamouris, S. Sciuto, A. Argiriou. (1996). Design Source Book on Passive Solar Architecture, Athens: CIENE - University of Athens, EC -DG XVII for Energy, ALTENER Programme, pp (Greek team) 3-26, 33-52, 59-64, 107-202, 217-230.
(Citations 1)
5. **A. Dimoudi**, I. Vaidi, M. Santamouris and G. Panno, S. Sciuto. (1996). Source Book on Legislation on Passive Solar Energy and Energy Conservation in Buildings: Europe - Greece - Italy. Athens: CIENE - Univ of Athens, EC -DG XVII for Energy, ALTENER Programme, pp (Greek team) 1-134.
6. **A. Dimoudi**. (1995). Passive Cooling of Buildings - Case Studies. Athens: CIENE - University of Athens, EC -DG XVII for Energy, pp. 1-103.

Conference Publications (In Scopus)

1. Dimoudi A., Stathis V., Pallas Ch. (2017). 'Transformation of a small livestock, rural community into a green, nearly zero CO2 emissions settlement'. In: Smart and Sustainable Planning for Cities and Regions. Bisello A., Vettorato D., Stephens R., Elisei P. (eds). Green Energy and Technology. Springer Intern., Publ. ISBN: 978-331944899-2;978-331944898-5
(Citations 1)
2. Boemi S.N., Samarentzi M., Dimoudi A., (2019). 'Research of energy behaviour and energy poverty of households in Northern Greece', SBE19 - Sustainability in the Built Environment for climate change mitigation, Thessaloniki (GR), 23-25 Oct., IOP Conference Series: Earth and Environmental Science (EES), Vol. 410

National Educational Books

1. **Dimoudi**. (2013, 2006). Environmental Building Materials, Xanthi: D.U.TH.
2. **Dimoudi**. (2013, 2006). Building Materials, Properties & Characteristics, Xanthi: D.U.TH.
3. **Dimoudi**. (2001). 'Improvement of Living Conditions and Environment's Quality in Urban Areas: Case Studies', Volume B/ PSP 61 'Bioclimatic Design of Buildings and Surrounding Space', Patra: Greek Open University, pp. 101-130, ISBN 960-538-383-7

Technical Guides of the Technical Chamber of Greece (TG.TCG)

Member of the working group of the Technical Chamber of Greece (TCG) for the development of Technical Guides (TG.TCG) in support of the 'Regulation for Energy Efficiency of Buildings':

- i) TG.TCG 20701-1 / 2010 'Analytical national specifications for parameters for calculation of the energy performance of buildings and for the issue of the energy certificate: i) Specifications for the building's envelope parameters
- ii) T.G.TCS 20701-2 / 2010 'Thermophysical properties of structural materials and assessment of the thermal insulation requirements of buildings'
- iii) TG. TCG on 'Bioclimatic architecture' (Draft)

International Journals (Refereed)

1. **Dimoudi A.**, Nikolopoulou M-E. (2003). 'Vegetation in the Urban Environment: Microclimatic Analysis and Benefits'. *Energy and Buildings*, Vol. 35 (1), pp. 69-76.
(I.F. 2.465) (Citations 128)
2. **Dimoudi A.**, A. Androutsopoulos, S. Lykoudis (2004). 'Experimental work on a linked, dynamic and ventilated wall component'. *Energy and Buildings* Vol. 36 (5), pp. 443-453.
(I.F. 2.465) (Citations 23)
3. **Dimoudi A.**, A. Androutsopoulos, S. Lykoudis. (2006). 'Summer performance of a ventilated roof component', *Energy and Buildings*, Vol. 38 (6), pp. 610-617.
(I.F. 2.465) (Citations 29)

4. **Dimoudi A.**, A. Androutsopoulos. (2006). 'The cooling performance of a radiator based roof component'. *Solar Energy*, Vol. 80 (8), pp. 1039-1047.
(I.F. 3.541) (Citations 12)
5. **Dimoudi A.**, S. Lykoudis, A. Androutsopoulos. (2006). 'Thermal performance of an innovative roof component'. *Renewable Energy*, Vol. 31 (14), pp. 2257-2271.
(I.F. 3.361) (Citations 12)
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(SJR 0.496) (Citations 4)
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12. Zoras S., Georgakis C., Kosmopoulos P., **Dimoudi A.** (2011). 'Multi-year application of the three-dimensional numerical generation of response factors (NGRF) method in the prediction of conductive temperatures in soil and passive cooling earth contact components, *Solar Energy*, Vol 85(9), pp. 2275-82
13. Zoras S., **Dimoudi A.**, Kosmopoulos P. (2012). 'Analysis of conductive temperature variation due to multi-room underground interaction', *Energy and Buildings*, 55, 433-438
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14. **Dimoudi A.** (2012). 'Analysis of energy performance and conservation measures of school buildings in Northern Greece'. *Journal of Advances in Building Energy Research (ABER)*. pp. 1-15. DOI: 10.1080/17512549.2012.740904.
(SJR 0.496) (Citations 3)
15. **Dimoudi A.**, Kantzioura A., Zoras S., Pallas C., Kosmopoulos P. (2013). Investigation of urban microclimate parameters in an urban center, *Energy and Buildings*, 64, 1-9.
(I.F. 2.465) (Citations 4)
16. Zoras S., Tsermentselis A., Kosmopoulos P., **Dimoudi A.** (2014). Evaluation of the application of cool materials in urban spaces: a case study in the center of Florina. *Sustainable Cities and Society*, 13, 223-229.
17. **Dimoudi A.**, Zoras S., Kantzioura A., Stogiannou X., Kosmopoulos P., Pallas C. (2014). Use of cool materials in outdoor places in order to mitigate the urban heat island in a medium size city in Greece, *Sustainable Cities and Society*, 13, 89-96.
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18. Mousia A., **Dimoudi A.** (2015). 'Energy performance of open air swimming pools in Greece', *Energy and Buildings*, 90, 166-172
19. Kantzioura A., Kosmopoulos P., **Dimoudi A.**, Zoras S. (2015). Experimental investigation of microclimatic conditions in relation to the built environment in a central urban area in Thessaloniki (Northern Greece): A case study', *Sustainable Cities and Society*, 19, 331-340
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20. **Dimoudi A.**, Androutsopoulos A., Lykoudis S. (2015). 'Experimental study of the cooling performance of a ventilated wall', *Journal of Building Physics* 39(4), 297-320 (DOI: 10.1177/1744259114546282).

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23. Mytafides, C.K., Dimoudi, A., Zoras, S. (2017) Transformation of a university building into a zero energy building in Mediterranean climate. *Energy and Buildings*, 155, 98-114
24. Drosou V., L. Valenzuela & A. Dimoudi (2018). A new TRNSYS component for parabolic trough collector simulation. *Int. Journal of Sustainable Energy*. 37(3), 209-229
25. Karakounos I., Dimoudi A., Zoras (2018) The influence of bioclimatic urban redevelopment on outdoor thermal comfort, *Energy and Buildings*, 158 1266-1274.
26. Rajagopalan Pr., Dimoudi A., (2018) Editorial note for low energy social housing, *Energy and Buildings* 180 29-31.
27. Toumpoulidis P., Dimoudi A., Kosmopoulos P. and Zoras S., (2020). The contribution of a solar air heater collector to the cooling load in a building. *Intern J. of Ventilation*, pp 1-11
28. Vasileiadou A., Zoras S., Dimoudi A., Iordanidis A., Evagelopoulos V. (2020). Compost of Biodegradable Municipal Solid Waste as a Fuel in Lignite Co-combustion. *Environmental Research, Engineering and Management*, 76 (4), 60-67.

Greek Journals

1. **Dimoudi.** (1994). 'Education on Aspects of Energy Conservation in Buildings', *Journal of Productivity*, Greek Centre of Productivity, 5th year, Vol. 2 (25-26), 1994, pp. 41-43. (Invited paper).
2. Chaviaropoulos P., Vionis, P., **Dimoudi A.**, Karitsas K., Lemonis G., Lymberopoulos N., Panoutsou K., Protogeropoulos Ch. (2001). 'Recent Technological Developments in RES'. *Power Transmission*, October & November, Issue No 72 & 73, Technoekdotiki AEBE.
3. Kosmopoulos P., Zoras S., **Dimoudi A.**, Kantzioura A., Kosmopoulos J., Kosmopoulos A-M. (2011). 'Panhellenic investigation on the attitude and opinion of experts and public about RES applications. Vol. 18-, Nov. – Dec, pp. 86-93.

CONFERENCES

International (Refereed)

- 1) **Dimoudi A.**, A. Wilson. (1992). 'Natural Ventilation of Buildings through a Solar Chimney'. 3rd Intern. Conf. on *'Energy and Building in Mediterranean Area*, Thessaloniki, April, pp. 159-167.
- 2) Santamouris M., **A. Dimoudi**, D. Asimakopoulos, G. Guaraccino. (1994). 'Short Educational Structure on Energy Efficiency in Buildings'. Europ. Conf. on *'Energy Performance and Indoor Comfort in Buildings'*, Lyon, 24-26 Nov., pp. 1252-1255.
- 3) Santamouris M., **A. Dimoudi**, D. Asimakopoulos. (1995). 'Educational Material on Passive Cooling in Buildings'. Intern. Conf. on *'Training and Education in the Energy Field'*, Athens, 22-23 May, pp. 5
- 4) **Dimoudi A.**, M. Santamouris, D. Asimakopoulos. (1995). 'Educational Structure on Energy Efficiency in Buildings'. Intern. Conf. on *'Training and Education in the Energy Field'*, Athens, 22-23 May, pp. 7.
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- 10) **Dimoudi A.**, I. Vaidi, M. Santamouris, D. Asimakopoulos, Panno G., Sciuto S. (1996). 'Training and Information Activities Regarding Application of the European Codes, Technical Standards and Laws Related to Passive Solar Energy and Energy Conservation in Buildings'. Conf. on: *The Altener Programme: Renewable Energy Entering the 21st Century*, Barcelona, 25-27 Nov.
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- 16) **Dimoudi A.**, A. Androutsopoulos, S. Lykoudis. (2000). 'Experimental Testing of a Ventilated Roof Component for Energy Saving in Cooling'. The 21st AIVC Annual Conf. *Innovations in Ventilation Technology*, Hague, 26-29 Sept., pp. 10.
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- 22) Kiparissi Th., **Dimoudi A.** (2007). 'Measures to improve the cooling energy performance of student halls in Greece'. 3rd Intern. Conf. "Building Low Energy Cooling and Advanced Ventilation Technologies in the 21st Century", PALENC και AIVC, Hersonisos (Greece), 27-29 Sept.
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- 27) Avgerinos N., **Dimoudi A.**, Kosmopoulos P. (2010). Energy performance of secondary school buildings. 3rd Intern. Conf. on “Building Low Energy Cooling and Advanced Ventilation Technologies in the 21st Century”, PALENC 2010 & EPIC 2010 & 1st Cool Roof Conf., Rhodes (Gr), 29 Sept. – 2 Oct. 2010.
- 28) Vagi F., **Dimoudi A.** (2011). ‘Analysing the energy performance of secondary schools in N. Greece’, “World Renewable Energy Congress 2011 – Sweden, Linkoping, 8-13 May.
- 29) **Dimoudi A.**, Kantzioura A., Zoras S., Kosmopoulos P. (2012). The influence of urban design in microclimate inside the urban canyons’, Proc. of ‘ICUC8 – 8th Intern. Conf. on Urban Climates’, UCD, Dublin (Ireland), 6-10 August.
- 30) **Dimoudi A.**, Kantzioura A., Stogiannou X., Zoras S., Kosmopoulos P. (2012). ‘Experimental study of surface temperatures inside urban canyons during summer period.’, ‘ICUC8 – 8th Intern. Conf. on Urban Climates’, UCD, Dublin (Ireland), 6-10 August.
- 31) **Dimoudi A.**, Zoras S., Tamiolaki A-M, Dimoudi S., Liveris P., Pallas C, Kosmopoulos P. (2013). Microclimate improvement through redesign of open urban areas with bioclimatic criteria in a city centre, Intern. Conf “Changing Cities: Spatial, morphological, formal & socio-economic dimensions’, Skiathos, 18-21 June 2013.
- 32) Zoras S., Tsermentselis A., Kosmopoulos P., **Dimoudi A.** (2013). Evaluation of the application of cool materials in urban spaces: a case study in the center of Florina. Intern. Conf. ‘Energy conservation technologies for mitigation and adaptation in the built environment: the role of ventilation strategies and smart materials’, 34th AIVC- 3rd TightVent- 2nd Cool Roofs’ - 1st venticool, Athens, 25-26 September.
- 33) **Dimoudi A.**, Zoras S., Kantzioura A., Stogiannou X., Kosmopoulos P., Pallas C. (2013). Use of cool materials in outdoor places in order to mitigate the urban heat island in a medium size city in Greece. Intern. Conf. ‘Energy conservation technologies for mitigation and adaptation in the built environment: the role of ventilation strategies and smart materials’, 34th AIVC- 3rd TightVent- 2nd Cool Roofs’ - 1st venticool, Athens, 25-26 September.
- 34) Zoras S., **Dimoudi A.**, Evagelopoulos V., Lyssoudis V., Dimoudi S., Tamiolaki A.M., Stathis V. (2013). Using computational fluid dynamics in the bioclimatic design of open spaces in two Greek cities’, Intern. Conf “Changing Cities: Spatial, morphological, formal & socio-economic dimensions’, Skiathos, 18-21 June.
- 35) Mousia A., **Dimoudi A.** (2014). Energy performance of open air swimming pools in Greece. Intern. Conf. “Energy in Buildings”, ASHRAE-Greek Chapter, Athens, 15 Nov.
- 36) Kosmopoulos P., Dimoudi A., Kantzioura A., Kosmopoulos I., Kleskas K., A.-M. Kosmopoulos, Zoras S. (2014). ‘A Social survey (2013) on how the economic crisis affects peoples’ attitudes towards the environmental subjects’. 3rd Intern. Conf. on “Countermeasures to Urban Heat Island”, Venice, October 13-15, pp. 132-143
- 37) Kosmopoulos P., Kantzioura A., Dimoudi A., Zoras S. (2014). “Built Environment and Microclimatic conditions in a central urban area”. 3rd Intern. Conf. on “Countermeasures to Urban Heat Island”, Venice, October 13-15, pp. 144-155
- 38) **Dimoudi A.**, Kantzioura A., Zoras S., Kosmopoulos P. (2015). Investigation of surface temperature fluctuation inside urban canyons, 2nd Intern. Conf. “Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions”, Porto Heli, 22-25 June.
- 39) Nikolaidou K., Zoras S., **Dimoudi A.** (2015). Benefits of traditional architecture: energy simulation performance evaluation of a tobacco warehouse building, 2nd Intern. Conf. “Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions”, Porto Heli, 22-25 June.
- 40) Zoras S., Veranoudis S., **Dimoudi A.** (2015). Urban microclimatic improvement effects to building blocks energy consumption by the use of energy simulation. 7th Intern. Conf. on ‘Sustainable Development in Building and Environment’, Reading (UK), 27-29 July.
- 41) **Dimoudi A.**, Stathis V., Pallas Ch. (2015). Transformation of a small livestock, rural community into a green, nearly zero CO2 emissions settlement. Intern. Conf. on “Smart and Sustainable Planning for Cities and Regions 2015”, Bolzano (IT), URAC Research – ISOCARP, 19-20 Nov
- 42) Drosou V., Tsekouras P., Kosmopoulos P., Dimoudi A., Papadopoulos A.M. (2016)

- Concentrating solar thermal systems: Perspectives for Greece, Proceedings of the 5th Intern. Conference on Renewable Energy Sources & Energy Efficiency, 5-6 May, Nicosia (CY)
- 43) V. Drosou, E. Kyiaki, A. Dimoudi, A. Papadopoulos. (2016). Concentrating solar thermal collectors for cooling of buildings: An assessment for Greece. 47th International Congress and Exhibition on Heating, Refrigeration and Air-Conditioning, 30 Nov-2 Dec, Belgrade (Serbia).
- 44) S. Zoras, S. Veranoudis, A. Dimoudi, (2016). Micro-climate adaptation in building energy consumption. 4th Intern. Conf. on Countermeasures to Urban Heat Island: COUNTERING URBAN HEAT ISLAND (UHI) AND CLIMATE CHANGE THROUGH MITIGATION, 30th May – 1st June 2016, Singapore
- 45) Zoras S., Veranoudis S., **Dimoudi A.** (2016). 'Climatic Adaptation Via Simulation of Building Energy Performance', Intern Conf. «IAQ 2016 Defining Indoor Air Quality, ASHRAE - AIVC, Alexandria, Virginia (USA), 12-14 Sept.
- 46) Mytafidis C., **Dimoudi A.**, Zoras St. (2017). 'Transformation of a University Building into a Nearly Zero Energy Building', Intern. Conf "Energy and Buildings 2017, ASHRAE-Greek Chapter, 12 Nov., Athens (GR).
- 47) Karakounos I., Dimoudi A., Zoras S., (2017). 'The influence of bioclimatic urban redevelopment on outdoor thermal comfort'. Intern. Conf on "Passive and Low Energy Architecture (PLEA): Design to Thrive, 3-5 July, Edinburgh (U.K.)
- 48) Vasileiadou A. Zoras S., **Dimoudi A.**, Iordanidis A. and Evagelopoulos V. (2019). 'The energetic potential of different bio-waste samples collected from an integrated waste management plant'. XIII Intern. Mineral Processing & Recycling Conf. (XIII IMPRC), Belgrade, Serbia, 08-10 May.
- 49) Vasileiadou A., Zoras S., **Dimoudi A.**, Iordanidis A. and Evagelopoulos V. (2019). 'Co-combustion of Lignite and Solid Wastes from Olive Oil Industry'. 15th Intern. Congress of the Geological Society of Greece Athens, Harokopio University of Athens, Greece 22-24 May.
- 50) Vasileiadou A., Zoras S., **Dimoudi A.**, Iordanidis A. and Evagelopoulos V. (2019). 'Compost as an energy source in lignite co-combustion'. 7th Intern. Conf on 'Environmental Management, Engineering, Planning and Economics (CEMEPE 2019)' and 'SECOTOX Conf., Mykonos island, Greece, 19- 24 May.
- 51) Kalogeropoulos G., **Dimoudi A.**, Toumpoulides P. Zoras S. (2019). Assessment of outdoor comfort perception in a pedestrian area of a medium size city. 4th Intern. Conf. "Changing Cities: Spatial, Design, Landscape & Socio-economic Dimensions", Chania (GR), 24-29 June.
- 52) **Dimoudi A.**, Kantzioura A., Elmasides C., S. Zoras S. (2019). The Energy Performance of Hospital Buildings in Greece – Towards Zero Energy Buildings, 8th Intern. Conf. "ENERGY in BUILDINGS 2019", Athens, 28 Sept.
- 53) Toumpoulidis P., **Dimoudi A.**, Kosmopoulos P. and Zoras S., (2019). 'The contribution of a solar air heater collector to the cooling load in a building'. 40th Intern AIVC conference, Ghent (Belgium), 15-16 Oct.
- 54) Boemi S.N., Samarentzi M., **Dimoudi A.**, (2019). 'Research of energy behaviour and energy poverty of households in Northern Greece', SBE19 - Sustainability in the Built Environment for climate change mitigation, Thessaloniki (GR), 23-25 Oct.

Statistics: Authors' No / publication: 3.70

1st Author: 19/54, 2nd Author: 19/54

International Conferences (Refereed, Book of Abstracts)

1. Dimoudi A., Zoras St., Dimoudi S, Tamiolaki A-M. (2014). Climate mitigation in urban centers through redesign of open urban areas with bioclimatic criteria. Intern. Conf. "The Mediterranean City 2014 – Adaptation Strategies to Global Environmental Change in the Mediterranean City and the Role of Global Earth Observations", Αθήνα, 10-11 Ιουρίου
2. Dimoudi A., Kantzioura A, Toumpoulides P., Zoras S., Sergides, Metaj M. (2019). Zero Energy Hospitals - The prospects for energy upgrade of hospital buildings in the Balkan region, 12th Intern Conf. "Energy and Climate Change", PROMITHEASnet – KEPA NKUA, Athens, 9-11 Oct.

TEACHING EXPERIENCE

European Institutes

Sept. 1994 : Lectures on 'Passive Cooling of Buildings' at the :

- Technical University of Budapest and
- Technical College UBL, Budapest (Hungary)

1990 - 1992: Part - time staff in the School of Architecture and Building Engineering, University of Bath (UK). Laboratory tuition on :

- *Fluids flow,*
- *Heat Transfer*
- *Computing Tuition on FORTRAN programming of Solar radiation Calculations*

Postgraduate studies

National Institutes

2010–today: MSc on 'Environmental Engineering and Science', Dep. of Environmental Engineer, DUTH.

- i) Coordination of seminar lectures on 'Environmental Engineering' (1st– 2nd semester, 2011-2012)
- ii) Lectures on:
 - i) 'Alternative and renewable energy sources for buildings and settlements (1st sem, 2010-11),
 - ii) 'Environmental friendly building materials, Recycling' (2010-2013 2nd semester),
 - iii) "Sustainable development in the built environment" (2013-2015),
 - iv) Bioclimatic design & modelling of urban outdoor spaces (2013 - 2015)
 - v) "Environmental Assessment of structures–'Environmental friendly building materials" (2013-2019),
 - vi) Energy assessment of buildings – Simulations: (2013-today)
 - vii) RES and applications on buildings and settlements (2013 - today)

2006- 2009, 2011, 2014-2016, 2018 -2019: MSc on "New Materials and Technologies in the Design of Reinforced Concrete Structures", Module "Design of Construction projects and Environment", Civil Engineer Depart., DUTH.

Lectures on :

- i) Environmental friendly materials (2006-2009, 2nd semester)
- ii) Alternative and renewable energy sources for buildings and settlements» (2011, 2nd semester) in section 'Bioclimatic Design of Concrete Structures and Settlements II',
- iii) 'Bioclimatic design of reinforced concrete structures and settlements I' (2014-today, 1st sem.)

2008, 2011, 2012: Lecture on 'Energy design of buildings', MSc course "Organization and Management of Technical Systems", Civil Engineering Depart. DUTH.

2005 - 2006: Lectures on 'Advanced building materials' and 'Energy audits of buildings', D.U.TH.

2001–2009, 2010–2011, 2016-17, 2019-20: Teaching Staff, Greek Open University, MSc course "Environmental Design of buildings and cities",

- Thematic Module "Design, environmental implications and assessment methods' (2001-09),
- Thematic Module "Bioclimatic Design of Buildings and outdoor space, (2016-17)
- MSc Dissertation Supervision(2002-2009, 2010-11, 2016-17, 2019-20)

European MSc (in English)

2004 - 2008: Lectures in the European Master Course "Renewable Energy Sources", School of Physics, Kapodistrian University of Athens, on the topics of :

- Natural ventilation principles (2005, 2006, 2008)
- European legislation in the energy performance of buildings (2005, 2006, 2008)
- Energy certification of buildings (2006, 2008)

23-03-2020: Lecture at the Intern MSc, Milano Polytechnic, School of Architecture, Built Environment & Construction Engineering, Thematic area: «EUROPEAN ENVIRONMENTAL AND LANDSCAPE POLITICS AND PROJECTS». Lecture on "INTERREG programme - European Projects on "Zero Energy Hospitals" and "Zero Energy Museums".

Undergraduate Studies

2005 – today: Depart. of Environmental Engineering, Democritus University of Thrace (D.U.TH)

1st Semester : Building materials (2005-2015)

Environmental friendly building materials (2005-15)

Environmental architecture (2014-2015)

Technical Design (2005 –today)

Sustainable Urban Design (2017- today)

Environmental Design of Buildings-Environmental Friendly Building Materials (2017-today)

2nd Semester: Energy audits of buildings (2005-2016)

Energy efficiency systems in buildings (2005-2016)

Energy efficiency in buildings – Energy audits (2017-2020)

Energy Design of Buildings (2017 -2020)

2002 - 2005: 1 lecture/year (3 years), Depart. of Architecture, National Technical University of Athens, on :

- Assessment methods and conservation of the environmental performance of artificial open spaces in cities.

1996- 2002: Part-time Ass. Professor/Lecturer, School of Mechanical Engineering, Technological Educational Institute of Piraeus. Laboratory tuition on :

1999 - 2002 : Fluids Flow II

1997 - 1999 : Fluids Flow I

1996 - 1997 : Fluids Flow I

Alternative Kinds of Energy

Training Seminars

European Seminars

April 2010: Lectures at the seminars:

- 'Building Physics'
- 'Comfort at buildings' interior'
- 'Microclimate'

at the frame of the EU project 'Education of energy auditors', Pristina (Kosovo).

June 2000: Lectures on 'Energy conservation at buildings – Energy audits' in the frame of the ECOS-OVERTURE- PHARE programme, Bitola (FYROM).

April 1996. "European and Greek Legislation on Bioclimatic Architecture", Seminar on '*Energy Saving and Bioclimatic Architecture in the Current Legislation*', Catania (I), 18 April 1996, CONPHOEBUS (I), EC - DGXVII for Energy, Programme ALTENER.

National Seminars

12 Febr. 2020: Academy of Prefecture of East Macedonia & Thrace, Xanthi, «Nearly Zero Energy Buildings & Sustainability».

27 Febr. 2019: Academy of Prefecture of East Macedonia & Thrace, Xanthi, «Sustainability at the Built Environment».

April 2014 - June 2015: Education and Lifelong Learning - Ministry of Education, University of Thessaly, AUTH - DUTH, Teaching module:

- Bioclimatic Design Urban Outdoor Spaces

1999-2000: Lectures at the educational seminars: 'Bioclimatic Architecture and Energy Conservation in Buildings', 'Energy Design of Buildings', 'Energy Conservation in Buildings–Energy Audits', '*Energy Conservation in Buildings - Industry – Agriculture*', Technical Chamber of Greece, (IEKEM-TEE).

1999-2000: Lectures at the educational seminars 'Renewable Energy Sources in Buildings', 'Training of Energy Managers of Buildings', Greek Training Centre of the Development Enterprises of the Local Authorities (EKEKA).

2000: Lecture at the educational seminar '*Bioclimatic Design of Buildings*', Professional Training Centre of Xanthi (Gr).

March 1997: Lecture on '*Microclimate and Buildings*', Seminar of Continuous Education 'Environmental Implications and Design', National Technical University of Athens (NTUA).

May 1996 : Lectures on :

- Introduction at Passive Cooling of Buildings - Principles
- Passive Cooling of Buildings - Case Studies

at the educational seminar 'Passive Cooling of Buildings', organized by CIENE in collaboration with CONPHOEBUS (I), ALTENER programme, DG XVII - EC.

April 1996: Lecture on 'Potential for Passive Cooling Applications in Buildings', 2-Days Seminar on '*Energy and Environmental Design of Buildings*', Corfu (GR), 25-26 April 1996, Regional Energy Office of Ionian Islands Prefecture, YPEXODE, TEE Corfu. (In Greek)

June 1995: Lecture on '*Microclimate and Energy Performance of Buildings*' at the short-course "Sustainable Development", organized by the University of Athens and Ministry of the Environment, Planning and Public Works.

1993: Lectures on topics on '*Energy and Buildings*' in Training Courses organized by CIENE - University of Athens, funded by the European Social Funds.

March 1988: Lecture on '*Passive Cooling of Buildings*' at a Postgraduate Short-Course at the Greek Centre of Productivity (ELKEPA), Thessaloniki (GR).

SUPERVISION OF DISSERTATIONS

PhD

Supervision

1. Pantazes G. 'The heat island phenomena and mitigation techniques for the urban environment'. Depart. of Environmental Engineering, DUTH (Dec 2013)
2. Vavalos P. Depart. of Environmental Engineering, DUTH (Jan 2015)
3. Drosou V., 'Investigation of thermal solar systems in the building sector'. Depart. of Environmental Engineering, DUTH (July 2012- Supervision from Oct 2015 – Oct 2016 (sabbatical start. Public defence: May 2017)).
4. Toumpoulides P., "Investigation of RES applications at buildings" (March 2018 – today)
5. Kalogeropoulos G. 'Investigation of the effect of heat island at urban areas with the support of contemporary electronic tools (2018-today)
6. Kariotou Gl. 'Bioclimatic design of outdoor spaces in educational buildings: the case of university buildings (2018 - today)
7. Kellis G. Portable unit of energy production from RES (2019- today)
8. Kostadimas C. Improvement of the energy characteristics of Hospitals aiming at nearly zero energy buildings (Sept 2020-today)
9. Karapetsis A. Sustainable hydrogen production (2020 –today)

Member of the 3-members supervising board

Department of Environmental Engineering, DUTH

1. Veranoudis S. 'Development of a calculation model of thermal transfer in buildings (Febr 2018-today).
2. Koukourli- Gatsou M. "Investigation of the impact of outdoor spaces at urban microclimate" (Febr 2018- today)
3. Vasileiadou A. 'Combustion of lignite-biomass solid waste for energy production, properties, modelling, environment" (Febr. 2018- today)

Department of Architecture, DUTH

4. Tsetine X-E. "The settlements of refugee at Xanthi area (1922-1930): protection, recording, reuse of existing buildings' stock and historical urban area" (April 2018- today).

Member of the 7-members examination board

1. Kotsiris G. 'Investigation of the effect of the under-layers of green roofs on plants' development

- and their thermal transmittance'. Agricultural University of Athens, (Public presentation: June 2012)
2. Kantzioura A., 'Effect of urban morphology on the formation of the urban microclimate. Depart. of Environmental Engineering, DUTH (Public presentation: June 2012)
 3. Atsonios I. " Experimental and calculation methods of energy evaluation of building's envelope with emphasis on super-insulation materials", School of Mechanical Engineering, NTUA (Public presentation Oct 2018)
 4. Antonara E., 'Open spaces – Historical places: The philosophy of designation of historical places in combination with contemporary and environmental values", "Department of Architecture, DUTH, (Public presentation May 2020)

MSc COURSE

Democritus University of Thrace (DUTH)

Department of Environmental Engineering

A. MSc course 'Environmental Engineering & Science'

1. Vogiatzi K. 'Ecological architecture with alternative building materials and their environmental assessment' (Oct. 2011).
2. Stogiannou X. 'Thermal Assessment of outdoor spaces structural materials (Oct 2011).
3. Vavalos P. 'Assessment of thermal comfort at buildings on the tertiary sector" (Oct 2013)
4. Mexmet X. 'Investigation of development of an urban grove in an urban area: the case of Komotini city' (Oct 2013).
5. Kougiouroukis A., «Investigation of the almost nearly zero energy building (March 2014).
6. Titoni E., «Investigation of the nearly zero energy buildings for the case of school buildings based on simulations» (Oct. 2014)
7. Chroni D., «'Management and exploitation of structural waste" (June 2015)
8. Mytafides Chr. "Contribution of passive heating and cooling techniques at the nearly zero energy building (Oct. 2015)
9. Karakounos I., The influence of the bioclimatic redevelopment of an urban open space into thermal comfort and energy performance of buildings' (Oct 2015).

Department of Civil Engineering

B. MSc course «New Materials and Technologies in the Design of Reinforced Concrete Structures»

10. Konstantinidou C. 'Assessment of the energy performance and proposals of energy upgrade of buildings in the public sector in the prefecture of Florina' (March 2009).
11. Aevazi A. 'Solar chimney: investigation and assessment of its performance with the energy simulation model Esp-r' (March 2009).
12. Markides C. 'Shading and energy performance of educational buildings (March 2009)

C. MSc course «System Engineering and Management»

1. Xezonaki E. 'Environmental design of airports: The case of the new airport at Kasteli, Herakleio (Crete, Greece) (March 2010).
2. Pantazes G. 'Investigation of heat island at an urban environment' (June 2012).

Greek Open University

MSc Course 'Environmental Design of Cities and Buildings'

1. Anagnostakes S. 'Urban thermal systems with use of alternative fuels: Study of a district heating system with use of biomass in an area of the Ellassona city' (July 2003).
2. Skreka J. 'Water recycling in the urban environment' (February 2004).
3. Moniakis M. 'Solar cooling: Assessment of it potential in public buildings in the Crete island', (February 2004).
4. Mamounes N. 'Solar cooling in hotels in the Northern Aegean area' (February 2004).
5. Zorba P. 'Solar control as a measure for reduction of the cooling load of buildings' (Oct. 2004)
6. Keranes N. 'Cogeneration systems for small urban complexes' (October 2004)
7. Tomba X. 'Environmental friendly building products' (June 2005)

8. Kostarela P. 'Environmental redesign of school buildings: Study area of Western Macedonia (June 2005).
9. Pogiariades H. 'Environmental design of urban open areas: Case study a district in Volos city' (June 2005).
10. Zaharoudes G. 'Environmental design of library buildings' (September 2006).
11. Kiparissi Th. 'Environmental design of student halls and use of energy management systems: Case study: Student halls of ATEI Larisa (September 2006).
12. Vagi F. 'Assessment of the energy and environmental design of school building. Case study: Evros prefecture' (September 2007).
13. Binas I. 'Organized construction of social houses; environmental, urban design and social parameters. Case study of social houses at Agrinio (September 2007).
14. Stiliou V. 'Application of bioclimatic design in existing buildings of the 'Vocational Educational Centres (VOC)' of OAED: Case study of the VOC of Agrinio (September 2008).
15. Roumeliotes P. 'Reuse of demolished building materials and components and their application in contemporary structures (September 2008).
16. Stefou Th. 'Environmental design assessment of multi-floor residence buildings' (Sept 2009).
17. Strates A. 'Environmental design ad RES principles in barracks (Sept. 2011)

UNDERGRADUATE STUDIES, Department of Environmental Engineering, D.U.TH

1. Konstantenedou Chr. 'Energy audits –certification of public buildings (Sept. 2007).
2. Kougiouroukes A. 'Energy assessment of Public office buildings' (July 2008).
3. Avgerinos N. 'Energy audits in school buildings – Proposals for energy upgrade' (July 2008).
4. Kerou Z. 'Environmental assessment of building materials' (July 2008).
5. Vavalos O. 'Assessment of the energy performance of buildings in the tertiary sector (April 2010)
6. Makouses D. 'RES use in settlements: the case of Pefka settlement, Thessaloniki' (April 2013).
7. Tsalikidou S-E. 'Investigation of the energy behaviour of secondary school buildings with energy audits and simulations and transformation into buildings of nearly zero energy consumption;' (June 2013).
8. Milioti M. – A. 'Assessment of thermal comfort in outdoor spaces' (April 2014)
9. Xroni A. 'Energy refurbishment of high schools aimed at nearly zero energy buildings' (June 2014).
10. Chatzoglou G.' Investigation of the carbon footprint of structural materials with emphasis on insulation materials' (Nov. 215).
11. Sarantos P. (2015) 'Assessment of the energy characteristics of Greek families –Case study: Alexandroupolis city" (Nov. 2015).

ENERGY ADVISOR IN BUILDING PROJECTS

1. Rehabilitation study of 2 buildings in the historical centre of Corfou island with application of RES: Ventilation study of buildings (Programme RECITE-REBUILD, CEC DGXVII, 1993-1994.
2. Energy study of a residential 2- floors complex Skoufeeka, Rafena, 1998
3. Energy study of a residential complex of 5 residences, K, Kifisia (Attiki), 2002.
4. Energy study of a 2- floors residence, Aspropyrgos area, Megara (Attiki), 2003.
5. Energy study of a multi-use building (offices – residence), N Philothei (Attiki), April 2003.
6. Energy study of a public mult-national nursery school, Komotini, December 2003.
7. Energy study of a residential complex of 2 residences, Peania (Attiki), 2008.
8. Energy study of a holiday residences complex, N. Panteleemonas (Katerini), 2008.
9. Energy study of Gynecological Clinic, General Hospital, Gjilan (Kosovo) 2008)
10. Energy study of Gjini Gazuli school building, Pristina (Kosovo), 2008.
11. Energy study of Ismail Qemali school building, Pristina (Kosovo), 2008.
12. Energy study of Emin Duvaku school building, Gjatova (Kosovo), 2008.
13. Energy study of Selma Riza school building, Gjatova (Kosovo), 2008.

