

Curriculum Vitae

Dionysia Kolokotsa

March 2026

Table of Contents

Contents

1	General Information.....	3
2	Education.....	3
3	Professional Experience.....	4
4	Leadership Positions and Roles.....	5
5	Teaching experience.....	5
5.1	Teaching Lectures.....	5
5.2	Thesis supervisor.....	7
5.2.1	PhD Thesis Supervisor.....	7
6	Research Experience.....	7
6.1	International Research Projects.....	7
6.1.1	Project Coordinator.....	7
6.1.2	Project Research Team Leader.....	8
6.1.3	Researcher.....	8
6.2	National Research Projects.....	9
6.2.1	Project Coordinator.....	9
6.2.2	Team Research TeamLeader.....	9
6.2.3	Researcher.....	10
6.3	Conferences and Invited speeches.....	10
6.3.1	Member of Scientific Committees.....	10
6.3.2	Invited and Keynote Speaker in Conferences and Lectures.....	11
7	Editor, Reviewer and Evaluator.....	13
7.1	Editor of scientific publications.....	13
7.2	Reviewer of Scientific Journals.....	14
7.3	Reviewer of Books.....	14
7.4	Evaluator.....	14
8	Publications.....	14
8.1	Thesis.....	14
8.2	Books.....	15
8.3	Book Chapters.....	15
8.4	Publications in Scientific Journals.....	17
8.5	Publications in Conference Proceedings.....	24
9	Publications' metrics.....	31
10	Awards and Distinctions.....	32
11	Rankings.....	32

1 General Information

Name	Dionysia (Denia) Kolokotsa
Background	Physicist, PhD
Current Position	Professor, Technical University of Crete
Date of Birth	02-09-1968
E-MAIL	dkolokotsa@tuc.gr deniako@gmail.com
Website	http://www.chenveng.tuc.gr/index.php?option=com_content&view=article&id=194:kolokotsa-en&lang=en

2 Education

2001	Doctor of Philosophy <i>Department of Electronics and Computer Engineering Technical University of Crete</i> Title: ‘Design and Implementation of an Integrated Intelligent Building Indoor Environment Management System using Fuzzy Logic, Advanced Decision Support Techniques, Local Operating Network capabilities and Smart Card Technology’
1995	Master of Science <i>Environmental design and engineering in Architecture Bartlett School of Graduate Studies University College London (UCL)</i>
1994	Master of Science <i>Meteorology – Environmental Physics Physics Department National and Kapodestrian University of Athens</i>
1991	BSc in Physics <i>Physics Department National and Kapodestrian University of Athens</i>

3 Professional Experience

1.9.2025-
31.3.2026 **Visiting Fellow**
Aarhus Institute of Advanced Studies and Department of Civil and Architectural Engineering
AARHUS UNIVERSITY

1.2022-10.2024 **Independent Expert for New European Bauhaus, Knowledge Platform Development**
Sustainability and Economy Main Area
Joint Research Center, European Commission, Italy

10.2021-10.2024 **Member of the Scientific Council**
EURAC Research Institute
Bolzano, Italy

2.2017- **Visiting Professor**
International Hellenic University

11-2020- **Full Professor**
School of Chemical and Environmental Engineering
Technical University of Crete

12-2016-
10.2020 **Associate Professor**
School of Environmental Engineering
Technical University of Crete

2-2011-12.2016 **Assistant Professor**
School of Environmental Engineering
Technical University of Crete

2002-2011 **Assistant Professor**
Department of Natural Resources and Environment
Technological Educational Institute of Crete

2002-2006 **Research Associate**
Telecommunication Systems Institute (TSI)
Technical University of Crete

1999-2002 **Adjunct Professor**
Department of Natural Resources and Environment
Technological Educational Institute of Crete

1997-2004	Research Associate <i>Department of Electronics and Computer Engineering</i> <i>Technical University of Crete</i>
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1995-1996	Consultant for wind farms projects in Greece <i>Euroen-ITA AE</i> <i>Rokas S.A.</i>
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4 Leadership Positions

2.2012-3.2021	Chair of the Board of Directors of the European Association of Industries and Academia for the Cool Materials in the Built Environment <i>European Cool Roofs Council</i>
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9.2021-8.2024	Dean of the School <i>School of Chemical and Environmental Engineering</i> <i>Technical University of Crete</i>
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9.2017-9.2021	Director of Postgraduate Studies <i>School of Chemical and Environmental Engineering</i> <i>Technical University of Crete</i>
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5 Teaching experience

5.1 Teaching Lectures

199-2001	Laboratory tutor of the Course “ Physics” <i>Department of Natural Resources and Environment</i> <i>Technological Educational Institute of Crete</i>
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2000-2002	Laboratory tutor of the following courses: <ul style="list-style-type: none">• Signals and Systems• Technology and Applications of Fuzzy Logic.• Linear Systems.• Robotics
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*Department of Electronics and Computer Engineering
Technical University of Crete*

- 2002-2005 Main tutor as teaching associate of the following courses:
- Methods and Applications of Automation and Control in Industrial Systems (7th semester)
 - Electronic Systems for Energy Management (8th semester and postgraduate level)

*Department of Electronics and Computer Engineering
Technical University of Crete*

- 2002 – 2010 Main tutor of the following courses:
- Renewable Energy Sources I (5th semester).
 - Renewable Energy Sources II (6th semester).
 - Energy and Economics (4th semester).
 - Design and Development of Renewable Energy Projects (7th semester)
 - Quality Control of Energy and Environmental Systems (8th semester).
 - Passive Solar Systems (selective course in the 10th semester).
 - Energy Management (selective course in the 9th semester)

*Department of Electronics and Computer Engineering
Technical University of Crete*

- 2006 and 2008 Lecture in:
Assessment and Applications of Smart Buildings

*European Master in Renewable Energy
National and Kapodestrian University of Athens*

- 2010-today
- Postgraduate Courses:
- Advanced studies on Energy Efficiency and Environmental quality in the Built Environment
 - Sustainable Energy Systems
 - Smart Energy systems and Integrated design in the Built Environment (PhD Course)
- Undergraduate Courses:
- Environmental Meteorology and Air Quality Models (5th semester)
 - Optimisation of Environmental Systems (6th semester)
 - Technologies for Energy and Environment (6th semester)
 - Building Energy Efficiency (8th semester)
 - Field Studies I&II

*School of Chemical and Environmental Engineering
Technical University of Crete*

2013-2014	<u>Ventilation Courses</u> Sustainable energy design of buildings and the built environment http://elearn.elke.uoa.gr/elearn/index.php <i>National and Kapodestrian University of Athens</i>
2017-2019	Postgraduate Courses in: <ul style="list-style-type: none"> • Smart Buildings • Smart Cities <i>International Hellenic University</i>

5.2 Thesis supervisor

5.2.1 PhD Thesis Supervisor

1. Papantoniou S. (2015). Development of intelligent control algorithms for energy management targeting zero-energy buildings. **Completed**
2. Gobakis K. (2018) Development of intelligent materials for the built environment, School of Environmental Engineering, Technical University of Crete. **Completed.**
3. Kampelis N. (2019) Smart communities and smart grids. School of Environmental Engineering, Technical University of Crete. **Completed.**
4. Vasilakopoulou K. (2022) Intelligent Daylighting: Development and Optimization of light pipes with embedded low energy electric lighting systems, School of Environmental Engineering, Technical University of Crete. **Completed.**
5. Mavrigiannaki A. (2022) Zero energy communities and integrated design. School of Environmental Engineering, Technical University of Crete. **Completed.**
6. Lilli. K. (2025) Nature-based solutions for sustainable urbanisation of cities. Technical University of Crete. **Completed.**
7. E. Tsekeri (2025). Human Health & Wellbeing in the Urban Built Environment. Technical University of Crete. **Completed.**
8. F. Lygerakis (2025). Integration of Innovative Energy Efficient Technologies in Buildings and Neighbourhoods **Completed.**

6 Research Experience

6.1 International Research Projects

6.1.1 Project Coordinator

1. 2025-2028: Networking Green and Innovative Development Consultation Labs for Equal, Resilient, Human-Centred Urban Communities. ERASMUS-EDU-2025-CBHE-STRAND-2, ERASMUS+ Program.
2. 2020-2025: VARCITIES VISIONARY NATURE BASED ACTIONS FOR HEATH, WELL-BEING & RESILIENCE IN CITIES
Research and Innovation (Horizon 2020) -www.varcities.eu
3. 2015-2019: Smart Grids Energy Management Staff MSCA-RISE-2014: Marie Skłodowska-Curie

Research and Innovation Staff Exchange (Horizon RISE)

1. 2016-2019: Development of a multi-stakeholder dialogue platform and Think tank to promote innovation with Nature based solutions, ThinkNature. Horizon Coordination and Support Actions.
4. 2013-2014. Development of optimization and control algorithms for the LEAF micro-grid community. Funded by Loccioni Group Srl. www.loccioni.it
5. 2010-2013: Participation in the management team of the FP7 project PEBBLE (www.pebble-fp7.eu)
6. 2005-2007: Development of an interactive vocational Web training tool for the take-off of the buildings DIRECTIVE 2002/91/EC (Intelligent Energy Europe)
Technological Educational Institute of Crete

6.1.2 Project Research Team Leader

1. 2026-2030: PROTECT: Policy-Ready Operational Tools for Extreme-heat Cities and Territories, MISSION, Horizon Europe.
2. 2026-2030: RE-GROWTH-Bio-fabricated regenerative materials for sustainable, climate-resilient and beautiful construction, New European Bauhaus, Horizon Europe.
3. 2026-2027: SPINDEC: Synergies for Policy alignment, INitiative Design and Implementation for Industrial DECarbonisation, Horizon Europe, Coordination and Support Action
4. 2025-2029: INTEGRATES, Intelligent Digital Tools for Green Renovation, Assessment, Transformation, Efficiency and Sustainability, Horizon Europe.
5. 2022-2026: PROBONO: The Integrator-centric approach for realising innovative energy efficient buildings in connected sustainable green neighbourhoods, Innovation Action, Horizon 2020.
6. 2021-2026: JustNature: Activation of NATURE-based solutions for a JUST low carbon transition. Innovation Action, Horizon 2020
1. 2018-2019: Sydney Third City: Climate change and energy demand in Sydney 2050, University of New South Wales.
2. 2017-2020: RECO2ST: Residential Retrofit assessment platform and demonstrations for near zero energy and CO2 emissions with optimum cost, health, comfort and environmental quality. Research and Innovation Action, Horizon 2020.
3. 2017-2020: ERANETMED DESign of DESalination systems based on optimal usage of multiple Renewable Energy Sources, ERANETMED
4. 2017-2020 SAVES 2: Students Achieving Valuable Energy Savings, Horizon 2020.
5. 2015-2018: Horizon Research and Innovation Action. Achieving near Zero and Positive Energy Settlements in Europe using Advanced Energy Technology, H2020-EE-2015-1-PPP.
6. 2012-2015: web-based enerGy management system foR the optimization of the EnERgy coNsumption in Hospitals Green@Hospital, <http://www.greenhospital-project.eu/>
7. 2008-2011: Promotion of cool roofs in EU – Intelligent Energy Europe (www.coolroofs-eu.eu) Technological Educational Institute of Crete.

6.1.3 Researcher

1. 2009-2010: sustainaBle uRban plannIng Decision support accountinG for urban mEtabolism
National Kapodestrian University of Athens
2. 2006-2007: Energy' regio

- Region of Crete, Energy Centre*
3. 2002-2004: SMART-ACCELERATE - ACCELERATION OF SMART BUILDINGS' TECHNOLOGIES AND MARKET PENETRATION (SAVE 4.1031)
Telecommunication Systems Institute (TSI)
Technical University of Crete
 4. 2000-2003: LEONARDO SMART-BE Developing distance training courses for SMART Buildings Energy Management (EL/B/P/2000/114146)
Technical University of Crete
 5. 2000: Dissemination of the advanced control technologies for isolated power systems with increased RES (Renewable Energy Systems penetration (DIS-1625-1998-THERMIE)
National Technical University of Athens
 6. 1997-2001: Builtech: Combining smart card and local operating network technologies with advanced decision support techniques to develop an intelligent industrial energy management system for buildings
Technical University of Crete
 7. 1997: Quality control for household applications by on-line evaluation of mechanical defects-MEDEA (SMT4952016)
Technical University of Crete
 8. 1996: Climate Technology Strategy within Competitive Energy Markets (JOS3950008)
National Technical University of Athens
 9. 1992-1994: PASCOOL (CT2 – 0013)
National Kapodestrian University of Athens

6.2 National Research Projects

6.2.1 Project Coordinator

1. 2025-2028: National Program Agreement: Regional Support Mechanism of Crete for Adaptation to Climate Change, Green Fund Financing Scheme "NATURAL ENVIRONMENT & CLIMATE NEUTRALITY 2024"
2. 2026: National Program Agreement: Design and analysis of a zero-energy building at Inter-municipal Solid Waste Management Campus, targeting to create a World of Environmental Education at Inter-municipal Solid Waste Management.
3. 2013-2015: Camp-it: Development of an innovative energy management system for university campuses, funded by the General Secretariat of Research and Technology, Ministry of Education, Greece.
4. 2013: Development of Sustainable Energy Action Plan for Komotini and Soufli in collaboration with ETAM S.A.
5. 2012-2013: Innovative materials for the Built Environment
Special account of Research-Technical University of Crete
6. 2004-2007: Archimedes I EF-THERMO Development of energy management systems for greenhouses, Ministry of Education, Technological Educational Institute of Crete.

6.2.2 Research Team Leader

1. 2022-2025. Greenmat: Advanced Nanostructured Materials for Sustainable Growth: Green Energy Production/Storage, Energy Saving and Environmental Remediation' (TAEDR-0535821), implemented under the action 'Flagship actions in interdisciplinary scientific fields with a special focus on the productive fabric' (ID 16618), funded by the Greece 2.0 – National Recovery and Resilience Fund and the European Union – NextGenerationEU.
2. 2007-2009: Development of a decision support system for energy audit and benchmarking in buildings
Special account of Research-Technical University of Crete
3. 2005-2007: EPEAEK Archimedes II Development of a platform for testing the electric devices under low quality grid connections –PLATEIS Technological Educational Institute of Crete
4. 2004-2006: Pythagoras Development of educational material for indoor environmental quality, Technological Educational Institute of Crete, funded by the Ministry of Education.

6.2.3 Researcher

1. 2003-2006: Integrated systems for e-management of Indoor Environment and Energy in Buildings_General Secretariat of Research and Technology, Ministry of Education, Greece.
Telecommunication Systems Institute (TSI)
Technical University of Crete
2. 2003: Techno-economic assessment of desalination system using the dissipated heat of the Linoperamata Iraklion energy generation plant (Contract 11 1973)
Technical University of Crete
3. 2002-2003: SPINOFFS: Promotion of a smart node for energy management in buildings. Funded by General Secretariat of Research and Technology, Ministry of Education, Greece.
Telecommunication Systems Institute (TSI)
Technical University of Crete
4. 2002: Techno-economic assessment of hydro storage system in order to maximize the wind generated electricity of 25 MW wind farms in Crete.
Achladia Wind Farm and Technical University of Crete. Funded by General Secretariat of Research and Technology
General Secretariat of Research and Technology, Ministry of Education, Greece.
5. 1999: EPEAEK: Development of a postgraduate course for advanced technologies
Technical University of Crete. Funded by Ministry of Education.
6. 1998-2000: EPEAEK: Distant learning courses in Renewable Energy Systems
Technical University of Crete. Funded by Ministry of Education.

6.3 Conferences and Invited speeches

6.3.1 Member of Scientific Committees

1. Member of the Scientific Committee, International Workshop on Energy Performance and Environmental Quality of Buildings Conference, Milos 2005.
2. Member of the Scientific Committee of the 1st International Conference on Passive and Low Energy Cooling (Palenc) 2005.
3. Member of the Scientific Committee 28th AIVC CONFERENCE-2nd International Conference on Passive and Low Energy Cooling (Palenc) 2007.
4. Member of Scientific Committee for the joint 3rd Palenc, 5th EPIC and 1st Cool Roofs Conference, Rhodes 29-30 September 2010.
5. Co-chair of the Organising Committee and Scientific Committee of Joint Conference 34th AIVC- 3rd TightVent- 2nd Cool Roofs' - 1st venticool, 25-26 September 2013, Athens, Greece.
6. Member of the Technical Committee for the European Cool Roofs Council, 2013-2017.
7. Member of the Organising Committee and Scientific Committee for the 3rd International Conference on Countermeasures to Urban Heat Islands, Venice 2014.
8. Member of the Technical Committee for Zero Energy Buildings in the Intelligent Energy Europe Project ZEMEDS, 2014-2015, www.zemedes.eu/
9. Member of the Organizing Committee and Scientific Committee for the 4th International Conference on Countermeasures to Urban Heat Islands, Singapore 2016.
10. Member of the Scientific Committee of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys), Stanford CA, USA, 2016.
11. Member of the Scientific Committee of the International Conference on Sustainability in Energy and Buildings SEB-17 Chania, Greece 5, 6, 7 July 2017.
12. Member of the Scientific Committee of the 4th ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys 2017), November 8-9, 2017, Delft, The Netherlands.
13. Member of IEREK - International Experts for Research Enrichment and Knowledge Exchange.
14. Member of Cost Action on Energy Poverty in Europe.
15. Member of the Organising Committee and Scientific Committee for the 5th International Conference on Countermeasures to Urban Heat Islands, India 2019.
16. Member of the Organising Committee of 11th International Conference on Sustainability in Energy and Buildings (SEB19) 03-05 July 2019, Budapest, Hungary.
17. Bronze Member of KES International <http://www.kesinternational.org/>
18. Member of EU Energy Poverty Observatory <https://www.energypoverty.eu/members/denia-kolokotsa>
19. Member of GIB-Foundation SURE Stakeholders Council 2019-2024.
20. Member of the Eurac Scientific Council, Italy, 2021-2024.
21. Member of the Organising Committee and Scientific Committee for the 6th International Conference on Countermeasures to Urban Heat Islands, Adelaide, 2023.
22. Member of the European HEPA Working Group: European network for the promotion of health-enhancing physical activity promotion since 2023.
23. Member of Nature-Based Solutions Projects Board, Network Nature, 2023-today.
24. Member of the Scientific Committee of the 1st International Conference of Net Zero Carbon Built Environment, University of Nottingham, UK, 3 - 5 July 2024.
25. Member of the Scientific Committee of the 8th Sustainability in Energy and Buildings (SEB'26) International Chania, Crete: 8-10 July 2026.

6.3.2 Invited and Keynote Speaker in Conferences and Lectures

26. D. Kolokotsa. Matrix tool: A method for the assessment of smart buildings, TEE Eastern Crete, Heraklion, January 2005.
27. G. Sutherland, D. Kolokotsa, G. Stavrakakis, S. Karatassou, M. Santamouris. A Matrix Tool for Assessing the Performance of Intelligent Buildings. Keynote speech, 1st International Conference on Passive and Low Energy Cooling (Palenc) 2005, 19-21 May 2005.
28. D. Kolokotsa. Matrix tool: A method for the assessment of smart buildings, TEE Western Chania, June 2006.
29. D. Kolokotsa. The necessity of a dynamic vocational training tool for the uptake of the EPDB- the EEED project. 8th REHVA World Congress Clima 2005, Lausanne 9-12 October 2005.
30. D. Kolokotsa. Electronic Energy Buildings Directive: The project, aims and objectives. Workshop 1, 9th REHVA World Congress Clima 2007, Helsinki, 10-14 June 2007.
31. D. Kolokotsa. Electronic Energy Buildings Directive. EU Sustainable Energy Week, Brussels, 30 January 2008.
32. D. Kolokotsa. The Energy Performance Buildings Directive-Aims and Objectives. Int. Conference “Ecology + Environment + Architecture”, Athens, 10-13 April 2008.
33. D. Kolokotsa. Integrated Concepts and Solar Architecture in Different Climates. ICLEI EUROPEAN CONVENTION. Cities in Europe 2020 – Enhance sustainability now!” Brussels, Belgium, 12-14 September 2011.
34. D. Kolokotsa. Green Roofs for the Built Environment. 6th International Conference Enertech 2011, Athens 29/9/2011-2/10/2011.
35. D. Kolokotsa. Smart Cities Panel Initiative, CEN/CENELEC, Brussels, 5 December 2012.
36. D. Kolokotsa. Developments in Cool and Reflective Materials, CIBSE Natural Ventilation Group Summer Seminar,: Passive Building Technology in Practice, Friday 21st June 2013
37. D. Kolokotsa Welcome speech and Summing up of the Cool Roofs Track, Joint Conference 34th AIVC- 3rd TightVent- 2nd Cool Roofs’ - 1st venticool, Energy conservation technologies for mitigation and adaptation in the built environment: the role of ventilation strategies and smart materials, 25-26 September 2013, Athens, Greece
38. D. Kolokotsa. Keynote speaker for the Role of Cool Materials and the European Cool Roofs Council. 3rd International Conference on Countermeasures to Urban Heat Islands, Venice 2014.
39. D. Kolokotsa. Solutions and Countermeasures to Urban Heat Islands in European Cities: The role of Cool Materials and Green Infrastructure. Milan 2015.
40. D. Kolokotsa. The role of smart grids in zero energy buildings and communities. «Be Part of the Future» | Deep Energy Renovation | Conference and Workshop, Chania 2015.
41. D. Kolokotsa. The role of Nature Based Solutions in Climate Change Mitigation and Adaptation, 4th International Conference on Countermeasures to Urban Heat Islands, Singapore 2016.
42. D. Kolokotsa. Keynote speaker on How Smart Grids will affect the Built Environment. International Conference on Sustainability in Energy and Buildings SEB-17 5, 6, 7 July 2017, Chania, Greece.
43. D. Kolokotsa. Invited speaker on Energy Management in the Built Environment: From zero energy settlements to sustainable urbanisation through nature based solutions. MIT-ASHRAE Student Chapter, 5 September 2017, Massachusetts Institute of Technology, USA.
44. D. Kolokotsa. Invited speaker on cool materials in Europe: challenges and perspectives for the future. European Coil Coating Association, 51 Autumn Congress, 27-28 November 2017. Brussels. Belgium.

45. D. Kolokotsa. Invited speaker for the main conclusions from the 3 Taskforces in the EU projects clustering, International Conference on “Nature-Based Solutions: From Innovation to Common-use (NBS 2017)”, 24-26/10/2017, Tallin, Esthonia.
46. D. Kolokotsa. Invited Speaker for “Bucharest Forum on Nature-Based Solutions. Rethinking the Nature of Cities”, 2-3/10/2019, Bucharest, Romania.
47. D. Kolokotsa. Invited speaker in Concordia University for Smart Communities and Cities. 17 April 2018.
48. D. Kolokotsa. Invited Speaker in CEN/CENELEC/ETSI sector forum on smart and sustainable cities and communities on ZERO PLUS project outcomes, Stockholm, 25 September 2018.
49. D. Kolokotsa. Invited speaker at the University of New South Wales for Smart Cities, 4 December 2018, Sydney, Australia.
50. D. Kolokotsa. Invited Speaker in CEN/CENELEC/SFEM sector forum on Energy Management on ZERO PLUS project outcomes, 19 March 2019, Brussels, Belgium.
51. D. Kolokotsa. Design and implementation of a Web-GIS monitoring platform for zero energy settlements and districts. Invited Speaker in the 6th Jeffrey Cook Workshop in Desert Architecture, November 25-26, 2019, Ben-Gurion University of the Negev, Marcus Family Campus, Beer-Sheva, Israel.
52. D. Kolokotsa. Invited Speaker in Heat & Habitat in Cities Symposium H2CS - The 9 - 10 December, 2019, University of Adelaide, Australia.
53. D. Kolokotsa. Invited Speaker at HEPA Conference, KU Leuven, 2023.
54. D. Kolokotsa, Invited Speaker at University of Loraine, France, “How to bring nature to our cities”, Jan 2025.
55. D. Kolokotsa, Invited Speaker in Round Table on AI - Climate Change – Mediterranean organised by FESTUM-PI, 21st July 2025.
56. D. Kolokotsa, Invited Speaker at the International Symposium of Green Urban Futures with the title: Learning from abroad – Implementing nature-based actions in cities: Learning from Varcities EU, Adelaide, December 2025.
57. D. Kolokotsa, Invited Speaker at the RMIT University, Melbourne, December 2025.
58. D. Kolokotsa, Invited Speaker at the AIAS Aarhus University Seminar Series: “Towards Sustainable, Inclusive, and Beautiful Built Environment through a Regenerative path: Perspectives and Challenges”, Aarhus, February 2026.

7 Editor, Reviewer and Evaluator

7.1 Editor of scientific publications

1. 2021-today, Editor-in-Chief, Solar Energy Advances, ISES, Elsevier.
2. 2017-2022. Editor, Energy and Buildings, Elsevier.
3. 2015-2017. Editor in Chief, Advances in Building Energy Research, Taylor and Francis.
4. Member of Editorial Board of Scientific Reports, Nature.
5. Member of Editorial Board of Discover Energy, Nature.
6. Member of Editorial Board of Energies, MDPI.
7. Member of Editorial Board of Urban Science, and Energies MDPI AG.
8. Section Board Member Processes, MDPI.
9. Subject Editor, Plos Climate.
10. Member of Editorial Board of Renewable Energy, Elsevier.
11. Guest Associate Editor for Interdisciplinary Climate Studies, Frontiers.

12. Guest Editor of the Special Issue “Energy Management of Institutional Buildings”, Energy and Buildings, Elsevier.
13. Guest Editor of the Special Issue “Zero Energy Buildings Concepts and Applications”, Advances in Building Energy Research Journal, Taylor and Francis.
14. Guest Editor of the Special Issue “Heat Island Mitigation Technologies for the Urban Environment”, International Journal of Low Carbon Technologies, Oxford University Press.
15. Guest Editor of the Special Issue “Advanced technologies for energy efficiency in buildings”, International Journal of Sustainable Energy, Taylor and Francis.
16. Guest Editor of the Special Issue on Fuel Poverty in Urban Areas, Sustainable Cities and Society, Elsevier.

7.2 Reviewer of Scientific Journals

1. Renewable Energy, Solar Energy, Energy and Buildings, Building and Environment, Wind Engineering & Industrial Aerodynamics, Energy, Applied Energy, Renewable and Sustainable Energy Reviews, Energy for Sustainable Development, Urban Forestry and Urban Planning, Automation in Construction, Information Sciences, Elsevier.
2. MDPI,
3. IEEE Transactions on Smart Grid.
4. International Journal of Ambient Energy, Intelligent Buildings International, international Journal of Sustainable Energy, Advances in Building Energy Research, Taylor and Francis.
5. International Journal of Low-Carbon Technologies, Oxford University Press.
6. ASHRAE Transactions.

7.3 Reviewer of Books

Review of books for Elsevier, Taylor and Francis, Springer, World Scientific, EarthScan, Bentham Publishers, and KLABS.

7.4 Evaluator

7. Reviewer and Evaluator of the Intergovernmental Panel for Climate Change (IPCC) Report.
8. Independent Expert, Reviewer for the European Commission, DG Energy for FP7, CONCERTO, Horizon 2020, Horizon Europe, projects.
9. Evaluator of Research Proposals in Saudi Arabia, Kazakhstan, Estonia, Hungary, The Netherlands, Switzerland, Luxembourg, and Hong Kong.
10. Evaluator of the European Research Council, European Commission.
11. Evaluator of Research and Innovation Proposals for the General Secretariat for Research and Technology in Greece.
12. Member of the Evaluation Committee, Best Paper Award, Energy and Buildings, Elsevier
13. Member of the Evaluation Committee for Marie Curie Fellowships.

8 Publications

8.1 Thesis

- PhD Thesis

D. Kolokotsa: Design and Implementation of an Integrated Intelligent Building Indoor Environment Management System using Fuzzy Logic, Advanced Decision Support Techniques, Local Operating Network capabilities and Smart Card Technology.

Technical University of Crete, 2001.

- **Postgraduate theses**

D. Kolokotsa: Daylighting in buildings: Myth or reality.

MSc in Architecture

Bartlett School of Graduate Studies, University College London, 1995.

D. Kolokotsa: Night radiative cooling of buildings

Environmental Physics

Physics Department

National and Kapodestrian University of Athens

8.2 Books

- B1. D. Kolokotsa, M. Santamouris, H. Akbari, Eds “Cool Materials for the Built Environment”, Bentham Science, 2013.
- B2. T. Nikolaou, D. Kolokotsa, G. Stavrakakis, A. Apostolou, Managing Indoor Environments and Energy in Buildings with Integrated Intelligent Systems, Springer, 2015.
- B3. M. Santamouris, D. Kolokotsa, Eds “Urban Climate Mitigation Techniques”, Taylor and Francis, 2016.
- B4. Co-author of the book: Pollution and Indoor Environmental Quality for Buildings, SELKA - 4M, 2007. (in Greek)
- B5. Kampelis N, Kolokotsa, D Smart Buildings, Smart Communities and Demand Response: Volume 8, Wiley, 2021
- B6. Kampelis N, Kolokotsa, D Smart Zero-Energy Buildings and Communities for Smart Grids Book, DOI: 10.1002/9781119902201, Wiley, 2022.

8.3 Book Chapters

- B7. G. Guarracino, **D. Kolokotsa**, V. Geros. Advanced control systems for energy and environmental performance of buildings. Chapter in the book: Solar Thermal Technologies for Buildings, The state of the art, Part of the BEST (Buildings, Energy & Solar Technology) series, James and James Publishers, UK, 2003.
- B8. K. Dalamagidis, **D. Kolokotsa**. Reinforcement Learning for Building Environmental Control. Chapter in the book: Reinforcement Learning Theory and Applications, I-Tech Education and Publishing, ISBN 978-3-902613-14-1, 2007.
- B9. C. Diakaki, **D. Kolokotsa**. Life Cycle Assessment of Buildings. Chapter in the book Sustainable Building Engineering, James and James Publishing, EarthScan, 2008.
- B10. **D. Kolokotsa**, M Santamouris, A Synnefa, T Karlessi, Passive Solar Architecture, *in* Comprehensive Renewable Energy, Volume 3, ELSEVIER, 2012 (doi:10.1016/B978-0-08-087872-0.00320-6).
- B11. **D. Kolokotsa**, V. Dimitriou, A. Synnefa, Modelling Cool Materials’ Properties, *in* Cool Materials for the Built Environment, Bentham Science, 2013.
- B12. M. Kolokotroni, **Denia Kolokotsa**, *in* Energy and Environmental Aspects of Cool Materials, *in* Cool Materials for the Built Environment, Bentham Science, 2013.

- B13. K. Vasilakopoulou, **D. Kolokotsa**, and M. Santamouris Cities for Smart Environmental and Energy Futures: Urban Heat Island Mitigation Techniques for Sustainable Cities, *In Energy Systems Series*, Eds. P. Pardalos, S. Rassia, Springer, UK, 2013.
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- C66. E.Tsekeri, K. Gobakis D. Xilas, D. Kolokotsa, M. Kolokotroni, Francisco José Sánchez de la Flor,Angeliki Mavrigiannaki On the Impact of Highly Reflective Materials on Thermal Comfort and Energy Efficiency. Conference "IAQ 2020: Indoor Environmental Quality Performance Approaches Transitioning from IAQ to IEQ", Athens, 41st AIVC - ASHRAE IAQ, 14-16 September 2020.
- C67. Chantzis, G., Antoniadou, P., Symeonidou, M., Giama, E., Oxizidis, S., Kolokotsa, D., Papadopoulos, A.M. Demand side flexibility potential and comfort performance of non-residential buildings (2021) Journal of Physics: Conference Series, 2069 (1), art. no. 012151, .
- C68. Lilli, A.; Tsekeri, E.; Gobakis, K.; Kolokotsa, D. EURECA-PRO Conference on Responsible Consumption and Production 2022. 19-21/10/2022, Leon, Spain. "Enhancing Nature Based Solutions by incorporating digital innovation and infrastructure in Chania."
- C69. Lilli, A.; Tsekeri, E.; Gobakis, K.; Kolokotsa, D. Smart and Sustainable Planning for Cities and Region (SSPCR). 19-22/7/2022, Bolzano, Italy. "Enhancing Nature Based Solutions by incorporating digital innovation and infrastructure in Chania".
- C70. Tsekeri, E.; Lilli, A.; Katsiokalis, M.; Gobakis, K.; Kolokotsa, D. 7th International Conference on Smart and Sustainable Technologies (SpliTech). 5-8/7/2022, Bol, Croatia. "On the integration of nature-based solutions with digital innovation for health and wellbeing in cities, pp. 1-6, doi: 10.23919/SpliTech55088.2022.9854269."
- C71. Nikos Kampelis; Filippos Lygerakis; Dionysia Kolokotsa, Towards the development of a knowledge graph based decision support framework for Green Building Neighborhoods, 6th International Conference on Countermeasures to Urban Heat Islands, 4-7th December 2023
- C72. Katsiokalis, M., Tsekeri, E., Lilli, A., Gobakis, K., Kolokotsa, D., Mania, K. GoNature AR: Air Quality & Noise Visualization Through a Multimodal and Interactive Augmented Reality Experience (2023) IMX 2023 - Proceedings of the 2023 ACM

International Conference on Interactive Media Experiences, pp. 366-369. **BEST DEMO PAPER AWARD!**

- C73. Thodoris M. Chytis; Nikolaos Kampelis; Filippos Lygerakis; Dionysia Kolokotsa and Nikolaos A. Diangelakis, Occupant Behaviour optimisation towards thermal comfort and energy efficiency in the Built Environment, International Conference of Net Zero Carbon Built Environment, 2024.

9 Patents

1. Knowledge graph (KG) centric decision support for green building neighbourhood renovation scenario modelling, 2025-03-20 | Patent Contributors: Filippos Lygerakis; Dionysia Kolokotsa; Nikolaos Kampelis, <https://www.obi.gr/obi/Default.aspx?tabid=127&idappli=X1643496>
2. Hybrid citizen sourced and internet of things (IOT) sensed microclimatic conditions modeling for digital twin simulation of community planning models, ; Dionysia Kolokotsa. Patent Number: 1010896, Greek National Patent Office

10 Publications' metrics

Scopus 10,711 citations /h-index=53

Google Scholar 10736 citations /h-index=44 /h10-index=71

ISI 6256 /h-index=43.

11 Awards and Distinctions

1. Five highly cited papers according to ISI

2. The article:

Kolokotsa, D., Rovas, D., Kosmatopoulos, E., & Kalaitzakis, K. (2011). A roadmap towards intelligent net zero- and positive-energy buildings. *Solar Energy*, 85(12), 3067-3084.

was on the list of the Top 25 hottest articles for 2011, 2012 in *Solar Energy*.

3. The article:

Santamouris, M., & Kolokotsa, D. (2013). Passive cooling dissipation techniques for buildings and other structures: The state of the art. *Energy and Buildings*, 57, 74-94.

was on the list of the Top 25 hottest articles for 2014 in *Energy and Buildings*.

4. The articles:

Akbari, H., Kolokotsa, D., 2016. Three decades of urban heat islands and mitigation technologies research. *Energy and Buildings* 133. doi:10.1016/j.enbuild.2016.09.067

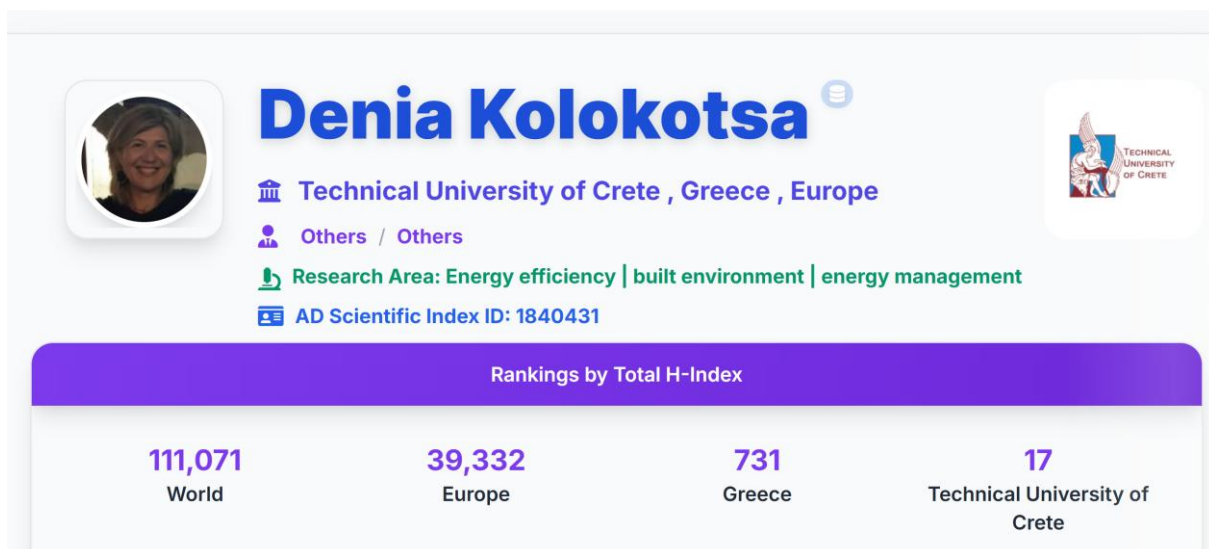
Kolokotsa, D. The role of smart grids in the building sector (2016) *Energy and Buildings*, 116, pp. 703-708. Invited Open Access Paper for *Engineering Advances*

at the Top most cited articles since 2016

5. 2021 Excellence Award of the Technical University of Crete

12 Rankings

1. AD Scientific Index 2025



2. Stanford List

Included in the list of the “World’s Top 2% Scientists” published by Stanford University 2021-2025.