



Stamatios Zoras BSc, MSc, PhD(Eng)

Associate Professor of Energy Efficiency and Design of Buildings and Settlements

Laboratory of Energy Efficiency and Design of Buildings and Settlements

Scientific Expertise

- Energy design simulation of buildings and settlements (TAS, AMBIENS, ECOTECT, ANSYS-CFX, FLUENT, Design Builder)
- Bioclimatic Design and simulation
- Passive design and energy harvesting
- Arithmetic heat transfer algorithms in buildings
- Environmental analysis of urban systems
- Atmospheric physics and meteorology
- Atmospheric pollution dispersion simulation
- Dissemination of environmental epidemic indices to the public
- Renewable technologies and applications in buildings
- Energy transition

Teaching subjects

1. Building and Atmospheric Physics
2. Building Energy Efficiency and Design
3. Atmospheric Pollutant Dispersion Simulation
4. Bioclimatic Design and Simulation

Projects

1. Microclimate Research Study for the Bioclimatic Reformation of the Open Center in Polycentro, Ptolemaida, Eordaia Municipality.
2. Measurements and Simulation in the Assessment of the Bioclimatic Reformation in the Connection Streets between Archeological Monuments in the City of Arta (Parigoritria – Castle), Arta Municipality.
3. FP7-311913: Precision technologies to improve irrigation management and increase water productivity in major water-demanding crops in Europe, 2012-2015.
4. Greece-China: Metropolitan Centers Effects in Regional Atmospheric Pollution and CLimate and Development of a General Software PAcKage for the Visualization Satelite Data. 2012-2015, GSRT.
5. Organization of Central System in the Management of air quality in the area of west Macedonia, Environmental Center, Ptolemaida, Greece.

Publications

1. Zoras, S. , Tsermentselis, A., Kosmopoulos, P., Dimoudi, A. 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, (2014)
2. C. Georgakis, S. Zoras, M. Santamouris, Studying the effect of 'cool' coatings in street urban canyons and its potential as a heat island mitigation technique, *Sustainable Cities and Society*, 13 20-31, (2014)
3. S. Zoras, Urban Environment Thermal Improvement by the Bioclimatic Simulation of a Populated Open Urban Space in Greece, *International Journal of Ambient Energy*, Article in Press 2013.
4. Zoras, S. , Dimoudi, A., Kosmopoulos, P., Analysis of conductive temperature variation due to multi-room underground interaction, *Energy and Buildings*, 55 433-438, (2012).
5. A. Kantzioura, P. Kosmopoulos, S. Zoras. Urban surface temperature and microclimate measurements in Thessaloniki, 44 63–72, (2012), *Energy and Buildings*.
6. S. Zoras, V. Evagelopoulos, J. Pytharoulis, G. Kallos, The development and validation of a novel based combination operational air quality forecasting system in Greece, 106(3-4), 127-133, (2010), *Meteorology and Atmospheric Physics*.
7. S. Zoras, A review of building earth-contact heat transfer, *Advances in Building Energy Research*, 3, 289-314, (2009), INVITED PAPER.
8. S. Zoras, A. G. Triantafyllou, V. Evagelopoulos, Aspects of year-long DOAS and ground station measurements in an urban street canyon nearby industrial pollution sources, *Atmospheric Environment*, 42, 4293-4303 (2008).

Contact

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