

Name: ALEXIOU DIMITRA



Position: Lecturer
Aristotle University of Thessaloniki.
Faculty of Engineering.
School of Urban -Regional Planning and
Development Engineering.

Address: Thessaloniki 541 24, Greece

Subject: Engineering Mathematics Planning and
Development

Tel.: +302310995934,

Mobile: +30 00306937163380

E-mail: dimitraalexiou@plandevel.auth.gr

Studies

- 1985: Graduate of the Model Lyceum of Zosimaia School in Ioannina.
- 1985-1986: Student of the Department of Civil Engineers,
Faculty of Engineering,
Aristotle University of Thessaloniki.
- 1998: PHD of the Department of Civil Engineers, Faculty of Engineering,
Aristotle University of Thessaloniki, Specialized in Mathematics.

Research interests

Key words:

- ✓ Applied Mathematics
- ✓ Statistics
- ✓ Graph theory and networks in Spatial planning.

Teaching (Courses)

- 1998-2012:** Alexander Technological Educational Institute of Thessaloniki.
Subject: "Mathematics I", "Mathematics II". "Applied Mathematics"
as an Assistant Professor.
- 2005-2008:** Presidential Decree Nr. 407/80, Assistant Professor,
Faculty of Engineering, University of West Macedonia,
Department of Computer Science and Telecommunications.
Subject: "Mathematical Analysis I and II», "Applied Mathematics".
- 2005-2010:** Presidential Decree Nr. 407/80, Lecturer,
Faculty of Engineering, Aristotle University of Thessaloniki,
School of Urban -Regional Planning and Development Engineering.
Subject "Mathematics", "Statistics", "Graph theory and networks in
Spatial planning".
- 2010:** Elected Lecturer, Faculty of Engineering,
Aristotle University of Thessaloniki,
School of Urban -Regional Planning and Development Engineering

Subject: "Mathematics", "Statistics", "Graph theory and networks in Spatial planning".

- 2015:** Elected Assistant Professor, Faculty of Engineering.
Aristotle University of Thessaloniki
School of Urban -Regional Planning and Development Engineering
Subject: "Mathematics", "Statistics", "Graph theory and networks in Spatial planning".

Recent Publications:

- 1. Alexiou D. (2012)**
"Equal area Membranes with Rectilinear congruence-Solution to the problem of the Membrane Surface".
Scientific Journal of the Technical University of Civil Engineering, Bucharest, Mathematical Modeling in Civil Engineering,
Vol. 2, pp.18-25.
- 2. Alexiou D., Katsavounis S. (2013)**
"Determining the Minimum Number of Warehouses and their Space-Size for Storing Compatible Items",
Optimization Theory Decision Making and Operational Research Applications, Springer Proceedings in Mathematics & Statistics 31,
Vol.2, pp 154-161.
- 3. Alexiou D., Tsouros C.C (2013)**
"Design of an irrigation water delivery system under the interconnection of canal capacity".
- 4. Alexiou D., Katsavounis S, Kalfakakou R. (2014)**
"Finding Viable Pollution Routes In An Urban Network Under A Predefined Cost",
International Journal of Social, Management, Economics and Business Engineering,
Vol.8, No.4, pp 926-928.
- 5. Alexiou D., Katsavounis S. (2015)**
"A Multi-objective Transportation Routing Problem"
Operational Research an International Journal, Springer-Verlag ,
Vol.15, Issue 2, pp 199-211.
- 6. Alexiou D. (2015).**
"Generating the family of all traffic signal light cycles coordinated with pedestrian crosswalks"
Optimization Letters, Springer-Verlag,
DOI 10.1007/s11590-015-0871-x
- 7. D. Alexiou , M. Fragaki (2016)**
"Data and Spatial Analysis for Economy and Education of 28 E.U. Member-States for 2014",
International Journal of Economics and Management Engineering 10(12),3797-3801.
- 8. D. Alexiou, C. Tsouros (2017)**
"Design of an Irrigation Network System in Terms of Canal Capacity Using Graph Theory".
Journal of Irrigation and Drainage Engineering 143(6),0601702.

American Society of Civil Engineers(ASCE).

9. D. Alexiou , E. Athanailidou (2017)

“On spatial transformations of a sphere”, Universal Journal of Mathematics and Mathematical Sciences.

Universal Journal of Mathematics and Mathematical Sciences(ISSN:2277-1417)

Pushpa Publishing House.

10. D.Alexiou (2018)

Minimizing the Vehicle distribution Duration Considering Service Time Priority”.

International Journal of Mathematics in Operational Research

IJMOR-180183

Inderscience Publishers

11. D.Alexiou (2018)

“Statistical and Land Planning Study of Tourist Arrivals in Greece during the Years 2005- 2016”.

International Journal of Mathematics and Computational Sciences 12(9),182-186.

Recent research activity:

November 2013: Postdoc

Generating the family of all traffic signal light cycles coordinated with pedestrian crosswalks