

BRIEF CURRICULUM VITAE

Sophia Zafiridou

Rank: Associate Professor

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Studies

Mathematical Department, Aristotle University of Thessaloniki, Greece:

- 1979: B. Sc. in Mathematics.

Department of Mathematics, University of Patras, Greece:

- 1990: Ph.D. in Mathematics, with Diploma Thesis on *Boundary-scattered spaces and universality* under supervision of S. D. Iliadis (Professor, Department of Mathematics, University of Patras).

Professional Experience

1982 – 1992: Scientific associate, Department of Mathematics, University of Patras.

1992 – 2001: Lecturer, Department of Mathematics, University of Patras.

2001 – 2009: Assistant Professor, Department of Mathematics, University of Patras

2009 – today : Associate Professor, Department of Mathematics, University of Patras

Research Interests

Continuum Theory. Dimension Theory. In particular, classification of one dimensional spaces (continua, boundary-scattered, boundary-compact, dendrites, graphs). Properties of the above mentioned spaces preserving by special maps (monotone, confluent, light). Conditions that ensure the existence of arcs in the above spaces. Study all of the above problems in the plane.

Teaching

Department of Mathematics, University of Patras

- Undergraduate courses (auxiliary teaching of exercises):
Analytic Geometry, Calculus I, General Topology I and II, Differential Geometry I and II, Differential Geometry.
- Undergraduate courses (independent teaching):
Analytic Geometry, Linear Algebra, Differential Geometry, Mathematical Analysis, Real Analysis II, General Topology II, Geometry.
- Postgraduate course: *Algebraic Topology.*

Department of Pharmacology, University of Patras

- *Applied Mathematics.*

Department of Biology, University of Patras

- *Mathematics.*

Web notes:

1. *Analytic Geometry.*
2. *General Topology II.*
3. *Geometry.*
4. *Real Analysis.*

Publications:

1. S.D. Iliadis and S.S. Zafiridou, *Rim-scattered Spaces and the Property of Universality*, **Topology. Theory and applications II**, (Pécs, 1989), 321-347, **Colloquia Mathematica Societatis János Bolyai**, 55, North-Holland, Amsterdam, 1993.
2. S.D. Iliadis and S.S. Zafiridou, *Planar rational compacta and universality*, **Fundamenta Mathematicae** 141 (1992), no. 2, 109-118.
3. L.E. Feggos, S.D. Iliadis, and S.S. Zafiridou, *Some families of planar rim-scattered spaces and universality*, **Houston Journal of Mathematics**, 20 (1994), no. 2, 351-364.
4. L.E. Feggos, S.D. Iliadis, and S.S. Zafiridou, *Planar rational compacta*, **Colloquium Mathematicum**, 68 (1995), no.1, 49-54.
5. S.S. Zafiridou, *Planar rim-scattered spaces and universality*, **Questions and Answers in General Topology**, 19 (2001), no. 1, 73-80.
6. S.S. Zafiridou, *Embedding of a planar rational compactum into a planar continuum with the same rim-type*, **Fundamenta Mathematicae**, 168 (2001), no. 2, 113-118.
7. S.S. Zafiridou, *A note about planar completely regular continua with structure*, **Topology and its Applications**, 123(2002), no.1, 199-203.
8. S.S. Zafiridou, *Containing compacta for some families of rim-scattered spaces*, **Houston Journal of Mathematics**, 29 (2003), no.2, 361-369.
9. S.S. Zafiridou, *Planar completely regular continua and the property of universality*, **Questions and Answers in General Topology**, 22 (2004), no. 1, 61-72.
10. S. Zafiridou, *Planar rim-scattered compactifications of planar spaces*, **Houston Journal of Mathematics**, 30 (2004), no. 1, 89-97.
11. K. Omiljanowski and S. Zafiridou, *Universal completely regular dendrites*, **Colloquium Mathematicum**, 103 (2005), no. 1, 149-154.
12. S. Zafiridou, *Universal dendrites for some families of dendrites with a countable set of end points*, **Topology and its Applications**, 155(2008), 1935-1946.
13. S. Zafiridou, *Dendrites with a countable closure of the set of end points*, **Topology and its Applications**, 156(2008), 142-149.
14. S.Zafiridou, *Classification of dendrites with a countable set of end points*, **Topology and its Applications**, 159(2012), 1661-1669.
15. W.J. Charatonik, E.P. Write and S.S. Zafiridou, *Dendrites with a countable set of end points and universality*, **Houston Journal of Mathematics**, Vol. 39, No. 2 , 2013 pp. 651-666.
16. S.Zafiridou, *A universal planar completely regular continuum*, **Fundamenta Mathematicae**, 229 (2015), 101-116.
17. S.Zafiridou, *Universal planar graph-like continuum*, accepted for publication in **Questions and Answers in General Topology**.