DIMITRIS ZOROS

CONTACT INFORMATION

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EDUCATION

2017   *Phd in Logic and Algorithms from the National and Kapodistrian University of Athens (NKUA)*, Supervised by Prof. Dimitrios M. Thilikos.

2014   *MSc from the Inter-university Postgraduate Program in Logic, Algorithms and Computation (MPLA).*

2008   *Bachelor in Mathematics from NKUA*

RESEARCH FIELDS

Graph Theory, Graph Algorithms, Parameterized Complexity, Graph Searching

ACADEMIC INTERESTS

Graph Theory, Discrete Mathematics, Algorithms, Complexity, Logic, Set Theory, Computability

PUBLICATIONS

JOURNALS

Branchwidth is (1,g)-self-dual, with Georgios Kontogeorgiou, Alexandros Leivaditis, Kostas I. Psaromiligkos, and Giannos Stamoulis. Discrete Applied Mathematics (Volume 350, June 2024, Pages 1–9)

On Strict Brambles, with Emmanouil Lardas, Evangelos Protopapas, and Dimitrios M. Thilikos. Graphs and Combinatorics (Volume 39, February 2023, Article number 24)

Sparse Obstructions for Minor-Covering Parameters, with Dimitris Chatzidimitriou and Dimitrios M. Thilikos. Discrete Applied Mathematics (Volume 278, May 2020, Pages 28–50)

Contraction Obstructions for Connected Graph Searching, with Micah J Best, Arvind Gupta, and Dimitrios M. Thilikos. Discrete Applied Mathematics (Volume 209, August 2016, Pages 27–47)

Effective Computation of Immersion Obstructions for Unions of Graph Classes, with Archontia C. Giannopoulou, and Iosif Salem. Journal of Computer and System Sciences (Volume 80, Issue 1, February 2014, Pages 207–216)

CONFERENCES

On Strict Brambles, with Emmanouil Lardas, Evangelos Protopapas, and Dimitrios M. Thilikos. ICGT 2022: 11th International Colloquium on Graph Theory and combinatorics (France 2022)

FPT Algorithms for Plane Completion Problems, with Dimitris Chatzidimitriou, Archontia Giannopoulou, Spyridon Maniatis, Clément Requilé, and Dimitrios M. Thilikos. MFCS 2016: 41st International Symposium on Mathematical Foundations of Computer Science (Poland 2016)

A Fixed Parameter Algorithm for Plane Subgraph Completion, with Dimitris Chatzidimitriou, Archontia Giannopoulou, Clément Requilé, and Dimitrios M. Thilikos. CTW 2015: 13th Cologne-Twente Workshop on Graphs & Combinatorial Optimization (Turkey 2015)

Contraction Obstructions for Connected Graph Searching, with Micah J Best, Arvind Gupta, and Dimitrios M. Thilikos ICGT 2014: 9th International colloquium on graph theory and combinatorics (France 2014)

Geometric Extensions of Cutwidth in any Dimension, with Menelaos I. Karavelas, Spyridon Maniatis, and Dimitrios M. Thilikos. ICGT 2014: 9th International colloquium on graph theory and combinatorics (France 2014)

Effective Computation of Immersion Obstructions for Unions of Graph Classes, with Archontia C. Giannopoulou, and Iosif Salem. SWAT 2012: 13th Scandinavian Symposium and Workshops on Algorithm Theory (Finland 2012)

OTHER PRESENTATIONS

Type:	Conference presentation
Title:	*Fixed Parameter Algorithms for Completion Problems on Planar Graphs*
Conference:	AGTAC 2015: Algorithmic Graph Theory on the Adriatic Coast (Slovenia 2015)

Type:	Conference presentation
Title:	*Fixed Parameter Algorithms for Completion Problems on Planar Graphs*
Conference:	GROW 2015: 7th workshop on Graph Classes, Optimization, and Width Parameters (France 2015)

Type:	Poster at workshop
Title:	*Effective Computation of Immersion Obstructions for Unions of Graph Classes*
Conference:	Perspectives in Discrete Mathematics (Spain 2012)

TALKS

Title:	*Contraction Obstructions for Connected Graph Searching*
Conference:	ICGT 2014: 9th International colloquium on graph theory and combinatorics (France 2014)

ATHOR WORK

Title:	*(Πρόχειρες) σημειώσεις στη ΘΕΩΡΙΑ ΑΝΑΔΡΟΜΗΣ*
Type:	Lecture notes for the courses *Recursion Theory* and *Recursive Functions* (in Greek)
Title:	*(Πρόχειρες) σημειώσεις στις ΔΟΜΕΣ ΔΕΔΟΜΕΝΩΝ*
Type:	Lecture notes for the course *Data Structures* (in Greek)
Title:	*(Πρόχειρες) σημειώσεις στη ΘΕΩΡΙΑ ΣΥΝΟΛΩΝ*
Type:	Lecture notes for the courses *Set Theory* (in Greek)

Teaching Experience

2024-2025	*Recursion Theory*, Inter-university Postgraduate Program "Algorithms, Logic and Discrete Mathematics (ALMA)", Graduate Course
2023-2024	*Recursive Functions*, Dept. Mathematics NKUA, Undergraduate Course (614)
	Computational Complexity, Dept. Mathematics NKUA, Undergraduate Course (618)
	Recursion Theory, ALMA, Graduate Course
2022-2023	*Data Structures*, Dept. Mathematics NKUA, Undergraduate Course (352)
	Mathematical Logic, Dept. Mathematics NKUA, Undergraduate Course (513)
	Graph Theory, Dept. Mathematics NKUA, Undergraduate Course (373)
	Recursion Theory, ALMA, Graduate Course
2021-2022	*Introduction to Algorithm Design and Analysis*, Dept. Mathematics NKUA, Undergraduate Course (518)
	Computer Science II, Dept. Mathematics NKUA, Undergraduate Course (251)

Recursive Functions, Dept. Mathematics NKUA, Undergraduate Course (614)

Recursion Theory, ALMA, Graduate Course

2020-2021   *Introduction to Algorithm Design and Analysis*, Dept. Mathematics NKUA, Undergraduate Course (518)

Data Structures, Dept. Mathematics NKUA, Undergraduate Course (352)

Graph Theory, Dept. Mathematics NKUA, Undergraduate Course (373)

Recursion Theory, ALMA, Graduate Course

Parameterized Complexity and Algorithms, ALMA, Graduate Course

2019-2020   *Recursive Functions*, Dept. Mathematics NKUA, Undergraduate Course (614)

Data Structures, Dept. Mathematics NKUA, Undergraduate Course (352)

Graph Theory, Dept. Mathematics NKUA, Undergraduate Course (373)

Recursion Theory, ALMA, Graduate Course

2018-2019   *Computational Complexity*, Dept. of Informatics and Telecommunications NKUA, Undergraduate Course (ΘΠ20)

Advanced Topics on Algorithms, Dept. of Informatics and Telecommunications NKUA, Undergraduate Course (ΘΠ12)

Logic, ALMA, Graduate Course

Recursion Theory, ALMA, Graduate Course

Computational Complexity, ALMA, Graduate Course

2017-2018   *Recursion Theoy*, ALMA, Graduate Course

Parameterized Complexity and Algorithms, ALMA, Graduate Course

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THESIS COMMITTEE MEMBER

Minimum degree and immersions of complete graphs, Martha Oikonomou, ALMA (2023)

Parametric Overview of the Feedback Vertex Set, Konstantinos-Nikolaos Chatzikokolakis, ALMA (2022)

Minor-Obstructions for Apex Pseudoforests, Konstantinos Tsatsanis, ALMA (2022)

Extendability of Graphs with Perfect Matchings, George Semertzakis, ALMA (2021)

Contributions of Graph Theory and Algorithms to Animal Behaviour and Neuroscience, Nikolaos Smit, ALMA (2019)

Enumeration of Cactus Minor-Obstructions for k-Apex Submonocyclic Graphs, Alexandros Singh, ALMA (2018)

PARTICIPATION IN RESEARCH PROGRAMS

From Graph Theory to Matroids: Algorithmic Issues and Applications, Greek Ministry of Education and European Union "Thales", 2012-2015

Inference on Markov Random Fields: Complexity and Algorithms, Greek Ministry of Education and European Union "Academic and Research Excellence", 2014-2015

PARTICIPATION IN EDUCATIONAL PROGRAMS

Acquisition of Academic Experience for new Scientists Possessing a PhD 2022-2023 (at the Dept. of Mathematics NKUA), Greek Ministry of Development and Investment and European Union, 2022-2023

Acquisition of Academic Experience for new Scientists Possessing a PhD 2021-2022 (at the Dept. of Mathematics NKUA), Greek Ministry of Development and Investment and European Union, 2021-2022

Acquisition of Academic Experience for new Scientists Possessing a PhD 2020-2021 (at the Dept. of Mathematics NKUA), Greek Ministry of Development and Investment and European Union, 2020-2021

Acquisition of Academic Experience for new Scientists Possessing a PhD 2019-2020 (at the Dept. of Mathematics NKUA), Greek Ministry of Development and Investment and European Union, 2019-2020

Acquisition of Academic Experience for new Scientists Possessing a PhD 2018-2019 (at the Dept. of Informatics and Telecommunications NKUA), Greek Ministry of Development and Investment and European Union, 2018-2019

CONFERENCE ORGANIZING COMMITTEE MEMBER

M3ST 2009, WG 2010, GROW 2013, GRASTA 2017

CONFERENCE ATTENDANCE

NoNA Spring School on Algorithms 2009, M3ST 2009, GRASTA 2009, WG 2010, GROW 2013, ICGT 2014, AGTAC 2015, ALGO 2015, GRASTA 2017

ALGORITHMICA, BALCOR, CIAC, COCOON, COCOA, DAM, EJC, GRASTA, ICALP, IPEC, WG, MFCS, SWAT, TCS, WAOA

Athens, January 25, 2025