

Leonidas Palios

Dept of Computer Science
and Engineering
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Curriculum Vita

Education

- March 1992: PhD. Computer Science Department, Princeton University, NJ, USA.
June 1989 : Master's of Arts. Computer Science Department, Princeton University, NJ, USA.
June 1987 : Diploma. Electrical and Computer Engineering Dept, National Technical Univ., Athens, Greece.

Professional Experience

- Nov.'97 - today **Dept. of Computer Science and Engineering, University of Ioannina.**
May '06 - today: Associate professor.
Nov. '97 - May '06: Assistant professor, tenured since 2001.
- Sept.'97 - Nov.'97 **Dept. of Computer Science, University of Ioannina.**
Adjunct Lecturer.
- Oct. '96 - June '97 **Intrasoft S.A.**
Design and development of Java applications for e-commerce systems.
- Sept.'94 - Dec. '94 **Dept. of Computer Science, University of Minnesota, Minneapolis, USA.**
Adjunct Lecturer. Course: "CS3311: Discrete Structures of Computer Science" intended for undergraduate students.
- Apr. '92 - Aug. '94 **The Geometry Center, Πανεπιστήμιο της Minnesota, Minneapolis, USA.**
Postdoctoral Researcher. Design and analysis of algorithms for computational geometry and graph theory problems and participation in algorithm visualization projects.
- Jan. '93 - Mar. '93 Teaching of the course "CS5400: Introduction to Automata Theory" in the Computer Science Department of the University of Minnesota, intended for junior and senior undergraduate students and for graduate students.
- Sept.'87 - Mar. '92 **Dept. of Computer Science, Princeton University, Princeton, NJ, USA.**
Graduate student. Master's of Arts (June '89), Ph.D. (March '92).
PhD Thesis: "Decomposition Problems in Computational Geometry" under the supervision of Prof. Bernard Chazelle.
- Sept.'82 - June '87 **Dept. of Electrical and Computer Engineering, National Technical University of Athens.**
Undergraduate student. GPA: Excellent 9.66 (out of 10).
Diploma Thesis: "Design of an Expert System for Troubleshooting" under the supervision of Prof. Spyros Tzafestas.

From Jan. '95 to Oct. '96, I served my military service in the Greek Navy.

Research Interests

- Design and analysis of algorithms
- Computational geometry
- Graph Theory
- Algorithm visualization
- Data structures

Publications

25 journal papers, 1 book chapter, 27 conference papers, etc.

Citations (*excluding self-citations*)

Approximately 220.

Participation in Research Projects

- Programme “Thales”: “*Advanced Geometric Computations and Cutting Edge Applications*” (Coordinator: I. Emiris, Nat. Kap. Univ. of Athens) – Ministry of Education and Religious Affairs, Culture, and Sports, (2012-2015)
Member of the Athens Research Team,
- Project “*Efficient Algorithms for Reachability and Path-Selection Problems with Applications*” (Coordinator: L. Georgiadis, Univ. of Ioannina) – Ioannis S. Latsis Foundation (2010-2011)
Member of the project’s Research Team.
- Programme «ΠABET 2005» (Project for the Development of Industrial Research and Technology): “*An Integrated Environment for Usability Evaluation of Product Interfaces (iSIM)*”
In collaboration with S. Nikolopoulos, responsible for the algorithmic design of the iSIM environment.
- Programme «ΠENEΔ 2003»: “*Design and Implementation of Efficient Algorithms for Recognition and Optimization Problems for Classes of Perfect Graphs*” (Coordinator: S. Nikolopoulos, Univ. of Ioannina) – GSRT (2005-2008)
Member of the project’s Research Team and of the 3-member Supervising Committee of PhD candidate Kyriaki Ioannidou.
- Programme «Pythagoras II»: “*Sequential and Parallel Algorithms for Classes of Perfect Graphs*” (Coordinator: S. Nikolopoulos, Univ. of Ioannina) – GSRT (2005-2008)
Member of the project’s Research Team.
- Programme «Pythagoras I»: “*Design and Development of Geometric Algorithms for Curved Objects*” (Coordinator: I. Emiris, Nat. Kap. Univ. of Athens) – GSRT (2004-2006)
Expert Researcher collaborating with the Research Team of the Department of Infomatics and Telecommunications of the National Kapodistrian Univ. of Athens.
- Programme «Irakleitos»: “*Parallel Algorithms for Classes of Perfect Graphs*” (Coordinator: S. Nikolopoulos, Univ. of Ioannina) – GSRT (2002-2005)
Member of the project’s Research Team and of the 3-member Supervising Committee of graduate student Charis Papadopoulos.
- Programme «Sotiris Dakaris»: “*Analysis of Packet Routing Algorithms in Tree Structures*” (Coordinator: A. Symvonis, Univ. of Ioannina)– Research Committee, Univ. Of Ioanina (2001-2002)
Member of the project’s Research Team which consisted of faculty members from the Mathematics and the Computer Science Departments of the Univ. of Ioannina.

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- Trans-national collaboration Greece-Czech Republic (3/11/1999 – 2/11/2001)
Coordinator (for the Greek side) of the project “*Algorithms for graphics and visualization. Access through the Internet to distributed applications*” in collaboration with the University of West Bohemia (Plzen)
The Greek team also included I. Fudos (Assistant Professor, Computer Science Dept., Univ. of Ioannina)

Invited Lecture

- * Expert Workshop on “Graph Classes and Graph Algorithms,” Caesarea Rothschild Institute, Haifa, Israel, 25-30/4/2004

Participation in Journal Editorial Boards

- * Guest co-editor with I. Emiris, Computational Geometry: Theory and Applications **41** 2008, Special issue with selected papers from the 22nd European Workshop in Computational Geometry 2006
- * Journal of Discrete Mathematics, Hindawi Publishing Corporation, 2011-today

Participation in Conference/Workshop Program Committees

- * Workshop on Algorithms and Computation (WALCOM) 2014
- * Workshop on Algorithms and Computation (WALCOM) 2013
- * Workshop on Algorithms and Computation (WALCOM) 2012
- * Workshop on Algorithms and Computation (WALCOM) 2010

Organization of Workshops / Contests

- * 22nd European Workshop in Computational Geometry – EWCG '06 (Delphi, 27-29/3/06).
Workshop organization in collaboration with I.Z. Emiris (National and Kapodistrian Univ., Athens) and M. Karavelas (Univ. of Crete, Heraklion).
- * 7th Balkan Olympiad of Informatics - BOI '99 (Ioannina, August 22-27, 1999).
Contest organization in collaboration with S.D. Nikolopoulos for 4-member high-school student teams from Albania, Bulgaria, Cyprus, FYROM, Greece, Romania, Turkey, and Yugoslavia.

Journal Reviewer

- * Algorithmica
- * SIAM Journal on Computing
- * Discrete Mathematics
- * Discrete Applied Mathematics
- * Journal of Algorithms
- * Discrete and Computational Geometry
- * International Journal of Computational Geometry and Applications.
- * Journal of Graph Algorithms and Applications
- * Graphs and Combinatorics
- * Parallel Processing Letters

Research Project Reviewer

- American Mathematical Society, USA, 2014
- Office of the Vice President for Research, Kuwait University, Kuwait, 2013

Teaching

- *Dept of Computer Science and Engineering, University of Ioannina*
 - *Computational Geometry* (undergraduate), spring semester 1998, fall semesters 2001-2003, 2005-2007, 2012-2013
 - *Data Structures* (undergraduate), fall semesters 1997-1999, 2004, 2008-2011
 - *Theory of Computation* (undergraduate), spring semesters 1998-2014
 - *Algorithmic Graph Theory* (graduate), fall semesters 1999, 2009-2012 (in collaboration with S. Nikolopoulos), spring semester 2014 (in collaboration with S. Nikolopoulos, L. Georgiadis)
 - *Topics on Algorithms: Algorithms and Data Structures* (graduate), spring semesters 2002, 2005, 2009, fall semester 2006
 - *Computational Geometry* (graduate), fall semesters 1998, 2002, 2003, 2007, spring semester 2001

- *Computer Science Department, University of Minnesota*
 - *CS3311: Discrete Structures of Computer Science* (undergraduate), Sept.-Dec. 1994
 - *CS5400: Introduction to Automata Theory* (undergraduate, graduate), Jan.-Mar. 1993

Teaching Evaluation (based on questionnaires filled by students)

Course	Excellent / Very Good	Good	Average	Unsatisfactory
Comp. Geometry (6) <i>(Fall Sem. 2013-14)</i>	67% <i>34%</i>	33% <i>36%</i>	0% <i>20%</i>	0% <i>5%</i>
Th. of Computation (33) <i>(Spring Sem. 2012-13)</i>	18% <i>24%</i>	64% <i>41%</i>	18% <i>24%</i>	0% <i>6%</i>
Alg.Graph Theory (12) <i>(Fall Sem. 2012-13, grad)</i>	58% <i>41%</i>	33% <i>49%</i>	8% <i>7%</i>	0% <i>0%</i>
Comp. Geometry (10) <i>(Fall Sem. 2012-13)</i>	50% <i>28%</i>	40% <i>47%</i>	10% <i>18%</i>	0% <i>4%</i>
Th. of Computation (33) <i>(Spring Sem. 2011-12)</i>	48% <i>25%</i>	36% <i>43%</i>	15% <i>24%</i>	0% <i>5%</i>
Data Structures (24) <i>(Fall Sem. 2011-12)</i>	41,67%	50%	4,17%	4,17%
Th. of Computation (54) <i>(Spring Sem. 2010-11)</i>	31,48%	48,15%	20,37%	0%
Data Structures (33) <i>(Fall Sem. 2010-11)</i>	30,30%	48,48%	18,18%	3,03%
Th. of Computation (36) <i>(Spring Sem. 2009-10)</i>	56%	31%	14%	0%
Data Structures (25) <i>(Fall Sem. 2009-10)</i>	52%	40%	4%	0%

(In italics, the averages over all Computer Science (and Engineering) courses, when available.)

Supervision of PhD – Master’s – Bachelor’s Theses

- **Participation in the 3-member PhD Thesis Supervising Committee**
 1. George Margaritis, “Text Searching Services in Multi-user File Systems”, May 2014
 2. Kyriaki Ioannidou, “Characterization of new Classes of Perfect Graphs and Coloring and Longest Path Algorithms”, December 2009
 3. Katerina Asdre, “Algorithms and NP-completeness results for Extensions of Path Cover and Coloring Problems”, June 2008
 4. Charis Papadopoulos, “Algorithms for Classes of Perfect Graphs”, July 2005

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- **Participation in the 7-member PhD Thesis Committee**
 1. Christos Konaxis, “Algebraic Algorithms for the Solution of Systems of Polynomials and Applications”, National and Kapodistrian University, Athens, 2010
- **Supervision of Master’s Theses**
 1. Petros Tzimas, “An efficient algorithm for covering class-3 orthogonal polygons with r-stars’”, March 2013
 2. Lamprini Kamona, “Optimal triangulations of convex polygons’”, July 2008
 3. Georgia Kastidou, “Forbidden subgraphs for the class of P_4 -simplicial graphs’”, June 2004
 4. Dimitrios Akrivos, “A study of geometric depth and the simplicial depth’”, June 2003
 5. Stamatia Kyraleou, “Partitioning a polygon in regions of given areas and the corresponding problem in 3 dimensions’”, June 2003
 6. Alkis Poulis, “A study of competitive strategies for reaching the kernel of a polygon’”, September 2002
- **Supervision of Bachelor’s Theses**

Supervision of more than 50 Bachelor’s Theses (10 in progress), Univ. of Ioannina

Teaching Mobility (Erasmus programme)

- * May 2011: University of Gdansk, Gdansk, Poland
- * May 2013: Universita della Svizzera Italiana, Lugano, Switzerland

Administrative Work

- * Library Committee (coordinator): 1997-2000, 2010-2014
- * ECTS and International Collaborations Committee (coordinator): 2011-2014
- * Program of Studies Committee (coordinator): 2007-2010
- * Program of Studies Committee (member): 1997-2000, 2006-2007
- * Seminar Committee (coordinator): 2002-2005
- * Promotion Committee (member): 2003-2005
- * Building Committee (member): 2001-2003
- * Library Committee (member): 2000-2001

Distinctions

- * International Mathematical Olympiad – IOI ’82, Budapest, 1982
Participation in the 4-member team representing Greece.
- * Hellenic Mathematics Society Contests, 1981 & 1982
First prize in each of these two contests.

Other Activities

- * Research & Technology Dissemination Network “Software Usability” (1999-2001).
Member of the University of Ioannina team.

Foreign Languages

- * English (Proficiency of Cambridge)
- * French (Sorbonne I, Superieur III)
- * German (basic knowledge)

Publications

J. Journals

1. A. Lingas, L. Palios, A. Wasylewicz, and P. Zylinski, "Corrigendum: Note on Covering Monotone Orthogonal Polygons," *Information Processing Letters* **114**, 646-654, 2014
2. L. Georgiadis, S.D. Nikolopoulos, and L. Palios, "Join-Reachability Problems in Directed Graphs," *Theory of Computing Systems* **55**(2), 347-379, 2014
3. S.D. Nikolopoulos, L. Palios, and C. Papadopoulos, "Counting Spanning Trees using Modular Decomposition," *Theoretical Computer Science* **526**, 41-57, 2014
4. E. Lappas, S.D. Nikolopoulos, and L. Palios, "An $O(n)$ -time Algorithm for the Paired-Domination Problem on Permutation Graphs," *European Journal of Combinatorics* **34**(3), 593-608, 2013
5. S.D. Nikolopoulos and L. Palios, "An $O(nm)$ -time Certifying Algorithm for Recognizing HHD-free Graphs," *Theoretical Computer Science* **452**, 117-131, 2012
6. S.D. Nikolopoulos, L. Palios, and C. Papadopoulos, "A Fully Dynamic Algorithm for the Recognition of P_4 -sparse Graphs," *Theoretical Computer Science* **439**, 41-57, 2012
7. I.Z.Emiris, C. Konaxis, and L. Palios, "Computing the Newton Polygon of the Implicit Equation," *Mathematics in Computer Science* **4**(1), 25-44, 2010
8. S.D. Nikolopoulos, L. Palios, and C. Papadopoulos, "Maximizing the Number of Spanning Trees in K_n -complements of Asteroidal Graphs," *Discrete Mathematics* **309**(10), 3049-3060, 2009
9. S.D. Nikolopoulos and L. Palios, "Detecting Holes and Antiholes in Graphs," *Algorithmica* **47**(2), 119-138, 2007
10. S.D. Nikolopoulos and L. Palios, "On the Parallel Computation of the Biconnected and Strongly Connected Co-Components of Graphs," *Discrete Applied Mathematics* **155**(14), 1858-1877, 2007
11. S.D. Nikolopoulos and L. Palios, "Minimal Separators in P_4 -sparse Graphs," *Discrete Mathematics* **306**(3), 381-392, 2006
12. S.D. Nikolopoulos and L. Palios, "Recognizing HH-free, HHD-free, and Welsh-Powell Opposition Graphs," *Discrete Mathematics & Theoretical Computer Science* **8**(1), 65-82, 2006
13. S.D. Nikolopoulos and L. Palios, "Efficient Parallel Recognition of Cographs," *Discrete Applied Mathematics* **150**(1-3), 182-215, 2005
14. S.D. Nikolopoulos and L. Palios, "On the Recognition of Bipolarizable and P_4 -simplicial Graphs," *Discrete Mathematics & Theoretical Computer Science* **7**(1), 231-254, 2005
15. V. Dimakopoulos, L. Palios, and A. Poulakidas, "On the Hamiltonicity of the Cartesian Product," *Information Processing Letters* **96**(2), 49-53, 2005
16. S.D. Nikolopoulos and L. Palios, "Algorithms for P_4 -comparability Graph Recognition and Acyclic P_4 -transitive Orientation," *Algorithmica* **39**(2), 95-126, 2004
17. K.W. Chong, S.D. Nikolopoulos, and L. Palios, "An optimal parallel Co-connectivity Algorithm," *Theory of Computing Systems* **37**(4), 527-546, 2004
18. S.D. Nikolopoulos and L. Palios, "Parallel Algorithms for P_4 -comparability Graphs," *J. Algorithms* **51**(1), 77-104, 2004

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19. S.D. Nikolopoulos and L. Palios, "Parallel Algorithms for recognizing P_5 -free and co- P_5 -free Weakly Chordal Graphs," *Parallel Processing Letters* **14**(1), 119-129, 2004
20. I. Fudos and L. Palios, "An Efficient Shape-Based Approach to Image Retrieval," *Pattern Recognition Letters* **23**(6), 731-741, 2002
21. B. Chazelle and L. Palios, "Decomposing the Boundary of a Non-Convex Polyhedron," *Algorithmica* **17**(3), 245-265, 1997
22. L. Palios, "Connecting the Maximum Number of Nodes in the Grid to the Boundary with Non-Intersecting Line Segments," *Journal of Algorithms* **22**(1), 57-92, 1997
23. L. Palios, "Optimal Tetrahedralization of the 3d-Region 'between' a Convex Polyhedron and a Convex Polygon," *Computational Geometry: Theory and Applications* **6**, 263-276, 1996
24. B. Chazelle and L. Palios, "Triangulating a Non-Convex Polytope," *Discrete and Computational Geometry* **5**, 505-526, 1990
25. S. Tzafestas, L. Palios and F. Cholin, "Diagnostic Expert System Inference Engine based on the Certainty Factors Model," *Knowledge-Based Systems* **7**(1), 17-26, 1994

B. Book Chapters

1. B. Chazelle and L. Palios, "Decomposition Algorithms in Geometry," *Algebraic Geometry and its Applications*, C.L. Bajaj (ed.), 419-447, Springer Verlag, 1994

E. Edited Work

1. I.Z. Emiris and L. Palios (eds), *Computational Geometry: Theory and Applications* **41**(1-2), Special issue on the 22nd European Workshop on Computational Geometry (EuroCG 2006), 2008

C. International Conferences

1. L. Palios and P. Tzimas, "Minimum r -Star Cover of Class-3 Orthogonal Polygons," *Proc. 25th Intern. Workshop on Combinatorial Algorithms - IWOCA 2014*, 2014
2. L. Georgiadis, S.D. Nikolopoulos, and L. Palios, "Join-Reachability Problems in Directed Graphs," *Proc. 6th Intern. Computer Science Symposium in Russia – CSR 2011*, LNCS 6651, 195-208, 2011
3. S.D. Nikolopoulos, L. Palios, and C. Papadopoulos, "Counting Spanning Trees in Graphs using Modular Decomposition," *Proc. 5th Intern. Workshop on Algorithms and Computation – WALCOM 2011*, LNCS 6552, 202-213, 2011
4. E. Lappas, S.D. Nikolopoulos, and L. Palios, "An $O(n)$ -time algorithm for the paired-domination problem on permutation graphs," *Proc. 20th Intern. Workshop on Combinatorial Algorithms - IWOCA 2009*, LNCS 5874, 368-379, 2009
5. D. Koukopoulos, S.D. Nikolopoulos, L. Palios, and P.G. Spyraakis, "Optimal algorithms for Detecting Network Stability," *Proc. 2nd Intern. Workshop on Algorithms and Computation – WALCOM 2008*, LNCS 4921, 188-199, 2008
6. S.D. Nikolopoulos and L. Palios, "An $O(nm)$ -time Certifying Algorithm for Recognizing HHD-Free Graphs," *Proc. 1st Intern. Workshop on Frontiers in Algorithmics – FAW 2007*, LNCS 4613, 281-292, 2007

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7. I. Emiris, C. Konaxis, and L. Palios, "Computing the Newton Polytope of Specialized Resultants," *Proc. Effective Methods in Algebraic Geometry – MEGA 2007*, 2007
8. I. Kyriazis, I. Fudos, and L. Palios. "Detecting Features from Sliced Point Clouds," *Proc. 2nd Intern. Conference on Computer Graphics Theory and Applications – GRAPP 2007*, Volume GM-R, 188-196, 2007
9. S.D. Nikolopoulos, L. Palios and C. Papadopoulos, "A fully Dynamic Algorithm for the Recognition of P_4 -sparse Graphs," *Proc. 32nd Intern. Workshop on Graph-Theoretic Concepts in Computer Science – WG 2006*, LNCS 4271, 256-268, 2006
10. P. Fragopoulou, S.D. Nikolopoulos, and L. Palios, "Multi-source Trees: Algorithms for Minimizing Eccentricity Cost Metrics," *Proc. 16th Intern. Symposium on Algorithms and Computation – ISAAC 2005*, LNCS 3827, 1080-1089, 2005
11. S.D. Nikolopoulos and L. Palios, "Recognizing HHDS-free Graphs," *Proc. 31st Intern. Workshop on Graph-Theoretic Concepts in Computer Science – WG 2005*, LNCS 3787 , 456-467, 2005
12. S.D. Nikolopoulos and L. Palios, "Adding an Edge in a Cograph," *Proc. 31st Intern. Workshop on Graph-Theoretic Concepts in Computer Science – WG 2005*, LNCS 3787 , 214-226, 2005
13. S.D. Nikolopoulos and L. Palios, "Maximum-size Subgraphs of P_4 -sparse Graphs," *Proc. 10th Panhellenic Conference on Informatics – PCI 2005*, LNCS 3746, 68-79, 2005
14. S.D. Nikolopoulos and L. Palios, "Recognizing HHD-free and Welsh-Powell Opposition Graphs," *Proc. 30th Intern. Workshop on Graph-Theoretic Concepts in Computer Science – WG 2004*, LNCS 3353, 105-116, 2004
15. S.D. Nikolopoulos and L. Palios, "On the Strongly Connected and Biconnected Components of the Complement of Graphs," *Proc. Workshop on Graphs and Combinatorial Optimization – CTW 2004*, Electronic Notes in Discrete Mathematics 17, 229-235, 2004
16. S.D. Nikolopoulos and L. Palios, "Hole and Antihole Detection in Graphs," *Proc. ACM-SIAM Symposium on Discrete Algorithms – SODA 2004*, 843-852, 2004
17. S.D. Nikolopoulos and L. Palios, "Recognizing Bipolarizable and P_4 -simplicial Graphs," *Proc. 29th Intern. Workshop on Graph-Theoretic Concepts in Computer Science – WG 2003*, LNCS 2880, 358-369, 2003
18. S.D. Nikolopoulos and L. Palios, "On the Recognition of P_4 -comparability Graphs," *Proc. 28th Intern. Workshop on Graph-Theoretic Concepts in Computer Science – WG 2002*, LNCS 2573, 355-366, 2002
19. I. Fudos, L. Palios, and E. Pitoura, "Geometric Similarity Retrieval in Large Image Bases," *Proc. International Conference on Data Engineering – ICDE 2002*, 441-450, 2002
20. S.D. Nikolopoulos and L. Palios, "Recognition and Orientation Algorithms for P_4 -comparability Graphs," *Proc. 12th Intern. Symposium on Algorithms and Computation – ISAAC 2001*, LNCS 2223, 320-331, 2001
21. I. Fudos and L. Palios, "An Efficient Shape-Based Approach to Image Retrieval," in G. Borgefors, I. Nystrom, and G. Sanniti di Baja (eds.), *Proc. 9th Discrete Geometry for Computer Imagery Conference – DGCI 2000*, LNCS 1953, 505-517, 2000
22. L. Palios, "A new Competitive Strategy for Reaching the Kernel of an Unknown Polygon," in *Proc. Algorithm Theory – SWAT 2000*, LNCS 1851, 367-382, 2000

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23. L. Palios, "Optimal Tetrahedralization of the 3d-Region 'between' a Convex Polyhedron and a Convex Polygon," *Proc. 6th Canadian Conference on Computational Geometry – CCCG 1994*, 350-356, 1994
24. L. Palios, "On the Number of Extrema of a Polyhedron," *Proc. 6th Canadian Conference on Computational Geometry – CCCG 1994*, 320-325, 1994
25. L. Palios, "Connecting the Maximum Number of Grid Nodes to the Boundary with Non-Intersecting Line Segments," *Proc. Algorithm Theory – SWAT 1994*, LNCS 824, 255-266, 1994
26. B. Chazelle and L. Palios, "Decomposing the Boundary of a Non-Convex Polyhedron," *Proc. Algorithm Theory – SWAT 1992*, LNCS 621, 364-375, 1992
27. B. Chazelle and L. Palios, "Triangulating a Non-Convex Polytope," *Proc. 5th ACM Symposium on Computational Geometry – SCG 1989*, 393-400, 1989

L. International Conferences with Limited Reviewing

1. L. Palios and P. Tzimas, "Covering Class-3 Orthogonal Polygons with the Minimum Number of r -Stars," *Proc. 29th European Workshop on Computational Geometry – EuroCG 2013*, 9-12, 2013
2. L. Palios, "Verification of Partitions of 2d and 3d Objects," *Proc. 20th European Workshop on Computational Geometry – EuroCG 2004*, 171-174, 2004
3. L. Palios, "A linear-time Algorithm for computing the Optimal Bridge connecting two Disjoint Convex Polygons," *Proc. 17th European Workshop on Computational Geometry – EuroCG 2001*, 48-52, 2001

R. Technical Reports (excluding those related to the previous publications)

1. L. Palios, "Faster Algorithms for the Paired Domination Problem on Interval and Circular-Arc Graphs," *Technical Report TR-2014-3*, Department of Computer Science & Engineering, University of Ioannina, 2014
2. L. Palios and P. Tzimas, "A Faster Algorithm for Covering Class-3 Orthogonal Polygons with the Minimum Number of r -Stars," *Technical Report TR-2013-4*, Department of Computer Science & Engineering, University of Ioannina, 2013
3. L. Palios and P. Tzimas, "Covering Class-3 Orthogonal Polygons with the Minimum Number of r -Stars," *Technical Report TR-2012-2*, Computer Science Department, University of Ioannina, 2012
4. L. Palios, "Verification of Partitions of 2d and 3d Objects," *Technical Report TR-2001-23*, Computer Science Department, University of Ioannina, 2001
5. L. Palios, "A linear-time Algorithm for computing the Optimal Bridge connecting two Disjoint Convex Polygons," *Technical Report TR-2000-22*, Computer Science Department, University of Ioannina, 2000
6. L. Palios, "Linear time Algorithms for Tree Partitions with small Cutsizes," *Technical Report TR-1999-34*, Computer Science Department, University of Ioannina, 1999
7. L. Palios, "Reaching the Kernel of an Unknown Polygon Fast," *Technical Report TR-1999-33*, Computer Science Department, University of Ioannina, 1999
8. L. Palios, "Upper and Lower Bounds for Optimal Tree Partitions," *Technical Report GCG68*, The Geometry Center, University of Minnesota

O. Other Papers

1. L. Palios, "Motion Planning in Unknown Environments," *Proc. 3rd IMACS Intern. Conf. on Communications, Circuits, Systems and Computers – CCSC '99*, Computers and Computational Engineering in Control, N. Mastorakis (ed.), 353-362, 1999
2. S. Tzafestas and L. Palios, "Improved Diagnostic Expert System based on Bayesian Inference," *Proc. 12th IMACS World Congress on Scientific Computation*, 1988

T. Translation / Scientific Responsibility of English Textbooks

1. Translation / Scientific responsibility (in collaboration with S. Nikolopoulos) of the textbook
A.W. Biermann, "*Great Ideas in Computer Science: A Gentle Introduction*," 2nd edition, MIT Press, 1997
published by Crete University Press in 2008.
2. Participation (in collaboration with G.F. Georgakopoulos, S. Nikolopoulos and P. Fraggopoulou) in the team that was scientifically responsible for the 1st edition of the textbook
T. Cormen, C. Leiserson, R. Rivest, and C. Stein, "*Introduction to Algorithms*," 2nd edition, MIT Press, 2001
published by Crete University Press in 2006.

N. Course Notes

1. L. Palios, *Computational Geometry*, Course Notes, University of Ioannina

A. Animations

1. L. Palios, "Tetrahedralizing the 3d-Region 'between' a Convex Polyhedron and a Convex Polygon: The Movie," *Video*, The Geometry Center, Univ. of Minnesota (1994)
2. L. Palios and M. Philips, "Tetrahedral Break-Up," στο "Animation of Geometric Algorithms: A Video Review," *8th ACM Symposium on Computational Geometry* (1992)