

# CURRICULUM VITAE

Apostolos N. Papadopoulos, *Ph.D.*  
Email: papadopo@csd.auth.gr

September 2014

## 1. PERSONAL DATA

**Name:** Apostolos  
**Surname:** Papadopoulos  
**Middle:** Nikolaos  
**Year of birth:** 1971  
**Marital status:** Married, 1 child  
**Position:** Assistant Professor  
**Department:** Informatics  
**University:** Aristotle University of Thessaloniki  
**Work address:** Dept of Informatics, Aristotle University, 54124, Thessaloniki  
**Phone:** ++302310-991918  
**Fax:** ++302310-991913  
**Email:** [papadopo@csd.auth.gr](mailto:papadopo@csd.auth.gr)  
**URL:** <http://delab.csd.auth.gr/~apostol/index.html>

## 2. EDUCATION

**9/1989 – 9/1994** *Graduate studies:* University of Patras, Department of Computer Engineering and Informatics. *Thesis:* “Study of Parallel Algorithms for the Line Segment Intersection problem”.

**2/1995 – 3/2000** *PhD studies:* Department of Informatics, Aristotle University.  
*PhD thesis:* “Access Methods and Query Processing in Multi-dimensional Database Systems”.

**1986** First Certificate in English, University of Cambridge.

**2003** Proficiency in English, University of Michigan.

## 3. WORKING AND TEACHING EXPERIENCE

**6 / 1993 – 3 / 1994** Computer Technology Institute (C.T.I.) : C/C++ programming for Macintosh.

**11 / 1994 – 10 / 1995** Institute for Advanced Studies (I.A.S.):  
Teaching “Design and Analysis of Algorithms”, “Computer Networks”.

**3 / 1998 – 8 / 1998** I.N.R.I.A. Research Center (Paris): benchmarking spatial and spatiotemporal databases.

**11 / 1998 – 3 / 2000** Greek Telecommunications Organization: analysis, design and implementation of telematics system for monitoring industrial measurements.

**3 / 2000 – 9 / 2001** Military service

**9 / 2001 – 3/2003** - Research Associate with the Department of Informatics of **Aristotle University**, teaching “File Organization”  
- Computer engineer in **HellasCom S.A.**

**3/2003 – 10/2003** - Research Associate with the Department of Informatics of **Aristotle University**, teaching “Information Retrieval”  
- Programmer in **COMPUCON S.A.**

**11/2003 – 6/2009** Lecturer in the Department of Informatics of **Aristotle University**.

<b>6/2009 – today</b>	Assistant Professor in the Department of Informatics of <b>Aristotle University</b> .
<b>2003 - today</b>	Instructor in <b>Hellenic Open University</b> .
<b>2012 – today</b>	Visiting Professor in <b>International Hellenic University</b> .

#### 4. INVITED TALKS

- ⋆ Department of Computer Engineering and Informatics, University of Patras, Greece. Topic: “*Efficient Similarity Search in Streaming Time Series*”, **2005**.
- ⋆ Utrecht Hogeschool, The Netherlands. Topic: “*Top-k and Skyline Computation in Database Systems*”, **2007**.
- ⋆ Utrecht Hogeschool and Groningen Hogeschool, The Netherlands . Topic: “*Multimedia Information Retrieval (an introduction)*”, **2008**.

#### 5. RESEARCH PROJECTS

- ⋆ **PENED 1995-1997**: Design, Implementation and Evaluation of Algorithms for Spatial Query Processing using Spatial Access Methods.
- ⋆ **PABE 1996-1997**: Design, Implementation and Evaluation of a Small-Scale GIS with Raster and Vector Support.
- ⋆ **ESPRIT TMR 1996-2000**: European Network for Spatio-Temporal Database Systems.
- ⋆ **BILATERAL FRANCE-GREECE 1997-1999**: Benchmarking Issues for Spatial Query Processing.
- ⋆ **BILATERAL SERBIA-GREECE 2003-2005**: Mobile Object Data Management and Query Processing Techniques in Location-Based Services.
- ⋆ **PENED 2005-2008**: Research in Stream Data Management.
- ⋆ **BILATERAL SLOVENIA-GREECE 2005-2007**: Research in Data Mining Issues.
- ⋆ **BILATERAL POLAND-GREECE 2006-2008**: Research in Graph Data Management and Mining.
- ⋆ **COST-MOVE 2009-2013**: Knowledge Discovery from Moving Objects, RTD Framework Programme, ESF.
- ⋆ **CLOUD9 2010-2014**: “Cloud9: A multidisciplinary, holistic approach to internet-scale cloud computing”, under the THALIS framework. In progress.

#### 5. PUBLICATIONS

##### Theses

[**TH1**] Access Methods and Query Processing in Multi-dimensional Database Systems, PhD thesis, Department of Informatics, Aristotle University of Thessaloniki, **2000**.

##### Book Authoring

[**B1**] Y. Manolopoulos and A. N. Papadopoulos: “*Database Systems: theory and applications*”, New Technology Publications, 2006. (in Greek)

[**B2**] A.N. Papadopoulos and Y. Manolopoulos: “*Nearest-Neighbor Search: a database perspective*”, Springer, 2005.

[**B3**] Y. Manolopoulos, A. Nanopoulos, A.N. Papadopoulos and Y. Theodoridis: “*R-trees: theory and applications*”, Springer, 2005.

[**B4**] Y. Manolopoulos, A. N. Papadopoulos, K. Tsihlias: “*Theory and Algorithms for Graphs*”, New Technology Publication, 2014. (in Greek)

## Book Editing

[EB1] Y. Manolopoulos, [A.N. Papadopoulos](#) and M. Vassilakopoulos (eds): "*Spatial Databases: technologies, techniques and trends*", Idea Group Publishing, 2004.

## Book Translations

[BT1] A. Gounaris, Y. Manolopoulos, A. N. Papadopoulos, K. Tsihlias: Translation in Greek of the Book: [*J. Ullman, A. Rajaraman: "Mining of Massive Datasets", Cambridge University Press, 2012*], New Technology Publications, 2014.

## Course Notes

[CN1] [A.N. Papadopoulos](#), Y. Manolopoulos: Information Retrieval, 2008.

## Chapters in Books

[CH1] K. Raptopoulou, [A.N. Papadopoulos](#) and Y. Manolopoulos: "Simple and Incremental Nearest-Neighbor Search in Spatiotemporal Databases", In *Spatial Databases, technologies, techniques and trends*, IDEA Group Publishing, 2005.

[CH2] I. Karydis, A. Nanopoulos, [A.N. Papadopoulos](#) and Y. Manolopoulos: "Music Retrieval in P2P Networks Under the Warping Distance", *Enterprise Information Systems VII*, Springer, (best papers from ICEIS 2005), pp.53-60, 2006.

[CH3] [A.N. Papadopoulos](#), K. Tsihlias, A. Gounaria, Y. Manolopoulos, "Access Methods", *Computing Handbook*, 3rd ed. (2) 2014: 10: 1-18, Chapman & Hall/CRC Press, 2014.

## Articles in Encyclopedias

[EA1] M. Kontaki, [A.N. Papadopoulos](#) and Y. Manolopoulos: "Similarity Search in Time-Series Databases", *Encyclopedia of Database Technologies and Applications*, IDEA Group Publishing, 2005.

[EA2] D. Stojanovic, S. Djordjevic-Kajan, [A.N. Papadopoulos](#) and A. Nanopoulos: "Monitoring and Tracking Moving Objects in Mobile Environments", *Encyclopedia of Mobile Computing and Commerce*, IDEA Group Publishing, 2006.

[EA3] [A.N. Papadopoulos](#), A. Corral, A. Nanopoulos, Y. Manolopoulos: "R-tree (and family)", *Encyclopedia of Database Systems*, Springer, 2008.

[EA4] [A.N. Papadopoulos](#), Y. Manolopoulos, Y. Theodoridis, V. Tsotras: "Grid-file (and family) ", *Encyclopedia of Database Systems*, Springer, 2008.

[EA5] E. Frentzos, Y. Theodoridis, [A.N. Papadopoulos](#): "Spatio-temporal trajectories", *Encyclopedia of Database Systems*, Springer, 2008.

## Technical Reports

[TR1] Y. Manolopoulos, A. Nanopoulos, [A.N. Papadopoulos](#) and Y. Theodoridis: "`R-trees Have Grown Everywhere", unpublished technical report, 2003.

## Papers in Journals

[J1] [A. N. Papadopoulos](#) and Y. Manolopoulos Y.: "Nearest Neighbor Queries in Shared-Nothing Environmnets", *International Journal on Advances of Computer Science for Geographical Information Systems (Geoinformatica)* , Kluwer Academic Publishers, Vol.1, No.4, 1997.

[J2] Y. Manolopoulos, E. Nardelli, [A. N. Papadopoulos](#), and G. Proietti: "MOF-tree: A Spatial Data Structure to Manipulate Multiple Overlapping Features", *Information Systems*, Vol.22, No.8, pp.465-481, 1997.

[J3] [A. N. Papadopoulos](#) and Y. Manolopoulos: "Distributed Processing of Similarity Queries", *International Journal on Distributed and Parallel Databases*, Kluwer Academic Publishers, Vol.9, No.1, pp.67-92, 2001.

- [J4] A. N. Papadopoulos, Y. Manolopoulos: "Parallel Bulk-Loading of Spatial Data", *Parallel Computing, Special Issue on High Performance Computing with Geographical Data*, Vol.29, No.10, pp.1419-1444, 2003.
- [J5] K. Raptopoulou, Y. Manolopoulos, A. N. Papadopoulos: "Fast Nearest-Neighbor Search in Moving Object Databases", *International Journal on Advances of Computer Science for Geographical Information Systems (Geoinformatica)*, Kluwer, Vol.7, No.2, pp.113-137, 2003.
- [J6] Y. Karydis, A. Nanopoulos, A. N. Papadopoulos and Y. Manolopoulos: "Evaluation of Similarity Searching Methods for Music Data in Peer-to-Peer Networks", *International Journal of Business Intelligence and Data Mining*, Vol.1, No.2, 2005.
- [J7] A. N. Papadopoulos, A. Nanopoulos and Y. Manolopoulos: "Processing Distance Join Queries with Constraints", *The Computer Journal*, Vol.49, No.3, 2006.
- [J8] A. Nanopoulos, A. N. Papadopoulos and Y. Manolopoulos: "Mining Association Rules in Very Large Clustered Domains", *Information Systems*, Vol.35, No.5, pp.649-669, 2007.
- [J9] I. Karydis, A. Nanopoulos, A. N. Papadopoulos, D. Katsaros, Y. Manolopoulos: "Music Information Retrieval over Wireless Ad-hoc Networks", *IEEE Transactions on Audio, Speech and Language Processing*, 2007.
- [J10] A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos, T. Weltzer-Druzovec: "Robust Classification Based on Correlations Between Attributes", *International Journal of Data Warehousing and Mining*, Vol.3, No.3, 2007.
- [J11] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Adaptive Similarity Search in Streaming Time Series with Sliding Windows", *Data and Knowledge Engineering*, Vol.63, No.2, pp.478-502, 2007.
- [J12] D. Stojanovic, A. N. Papadopoulos, B. Predic, S. Djordjevic-Kajan, A. Nanopoulos: "Continuous Range Query Monitoring of Mobile Objects in Road Networks", *Data and Knowledge Engineering, Special Issue with Selected Papers from the 8-th International Conference on Enterprise Information Systems (ICEIS'06)*, 2006.
- [J13] B. Brumen, M.B. Juric, T. Weltzer, H. Jaakkola, A.N. Papadopoulos: "Assessment of Classification Models with Small Amounts of Data", *Informatica*, Vol.18, No.3, pp.343-362, 2007.
- [J14] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos.: "Collaborative Recommender Systems: Combining Effectiveness and Efficiency", *Expert Systems with Applications*, Vol.34, No.4, 2008.
- [J15] M. Kontaki, A. N. Papadopoulos, Yannis Manolopoulos: "Continuous Subspace Clustering in Streaming Time Series", *Information Systems*, Vol.33, No.2, pp.240-260, 2008.
- [J16] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos: "Nearest-Biclusters Collaborative Filtering with Constant and Coherent Values", *Information Retrieval*, Vol.11, pp.51-75, 2008.
- [J17] A. N. Papadopoulos, A. Lyritsis, Y. Manolopoulos: "SkyGraph: an Algorithm for Important Subgraph Discovery in Relational Graphs", *Data Mining and Knowledge Discovery (best papers from European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD'08))*, 2008.
- [J18] E. Tiakas, A. N. Papadopoulos, A. Nanopoulos, Y. Manolopoulos, D. Stojanovic, S. Djordjevic-Kajan: "Searching for Similar Trajectories in Spatial Networks", *Journal of Systems and Software*, 82(5), pp.772-788, 2009.
- [J19] E. Tiakas, A. N. Papadopoulos, A. Nanopoulos, Y. Manolopoulos: "Node and Edge Selectivity Estimation for Range Queries in Spatial Networks", *Information Systems*, 34(3), pp. 328-352, 2009.
- [J20] E. Tiakas, A. N. Papadopoulos, Y. Manolopoulos: "Progressive Processing of Subspace Dominating Queries", *The VLDB Journal*, 20(6), pp.921-948, 2011.
- [J21] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Continuous Top-k Dominating Queries", *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 24(5), pp. 840-853, 2012.
- [J22] E. Tiakas, A. N. Papadopoulos, Y. Manolopoulos: "On Estimating the Maximum Domination Value and the Skyline Cardinality of Multidimensional Data Sets", *International Journal of Knowledge-Based Organizations (IJKBO)*, 3(4), pp.61-83, 2013.

[J23] G. S. Brodal, A. Kaporis, A. N. Papadopoulos, S. Sioutas, K. Tsakalidis, K. Tsihlias: "Dynamic 3-sided Planar Range Queries with Expected Doubly Logarithmic Time", *Theoretical Computer Science (TCS)*, 526, pp.58-74, 2014.

## Papers in Conference Proceedings

[C1] M. Vasilakopoulos, A. N. Papadopoulos and Y. Manolopoulos: "Indices for Image Databases", *Proceedings of the 5<sup>th</sup> National Computer Conference (EPY 1995)*, Vol.1, pp.351-360, Athens, Greece, December 1995.

[C2] Y. Manolopoulos, E. Nardelli, A. N. Papadopoulos, and G. Proietti: "QR-tree: a Hybrid Spatial Data Structure", *Proceedings of the 1<sup>st</sup> International Conference on Geographic Information Systems in Urban, Regional and Environmental Planning*, pp.247-262, Samos Island, Greece, April 1996.

[C3] A. N. Papadopoulos, and Y. Manolopoulos: "Global Page Replacement in Spatial Databases", *Proceedings of the 7<sup>th</sup> International Conference on Database and Expert System Applications (DEXA 1996)*, pp.855-864, Zurich, September 1996.

[C4] A. N. Papadopoulos and Y. Manolopoulos: "Parallel Processing of Nearest Neighbor Queries in Declustered Spatial Data", *Proceedings of the 4<sup>th</sup> ACM Workshop on Advances in Geographic Information Systems (ACM-GIS 1996)*, pp.35-43, Rockville, Maryland, USA, November 1996.

[C5] A. N. Papadopoulos, and Y. Manolopoulos: "Performance of Nearest Neighbor Queries in R-trees", *Proceedings of the 6<sup>th</sup> International Conference on Database Theory (ICDT'97)*, pp.394-408, Delphi, Greece, January 1997.

[C6] A. Nanopoulos, A. N. Papadopoulos and Y. Manolopoulos: "The Impact of Area Balancing on Declustering Linear Quadrees", *Proceedings of the International Conference on Urban, Regional, Environmental Planning and Informatics to Planning in an Era of Transition*, Athens, Greece, October 1997.

[C7] A. Nanopoulos, Y. Psiliagos, A. N. Papadopoulos, and Y. Manolopoulos: "Parallel Linear Quadrees", *Proceedings of the 6<sup>th</sup> National Computer Conference (EPY'97)*, Vol.1, Athens, Greece, December 1997.

[C8] A. N. Papadopoulos, I. Giannakidou, M. Orfanidou and Y. Manolopoulos: "Performance Evaluation of Paged Quadrees on a Single-Processor Multi-Disk System", *Proceedings of the 17<sup>th</sup> Database Conference (DATASEM'97)*, October 12-14, Brno, Czech Republic, October 1997.

[C9] A. N. Papadopoulos and Y. Manolopoulos: "Similarity Query Processing using Disk Arrays", *Proceedings of the ACM SIGMOD Conference on Management of Data*, pp.225-236, Seattle, USA, 1998.

[C10] Y. Theodoridis, T. Sellis, A. N. Papadopoulos and Y. Manolopoulos: "Specifications for Efficient Indexing in Spatiotemporal Databases", *Proceedings of the International Conference on Scientific and Statistical Database Management (SSDBM'98)*, 1998.

[C11] A. N. Papadopoulos and Y. Manolopoulos: "Multiple Range Query Optimization in Spatial Databases", *Proceedings of the 2<sup>nd</sup> East-European Symposium on Advances in Databases and Information Systems (ADBIS'98)*, 1998.

[C12] C. Gurret, Y. Manolopoulos, A. N. Papadopoulos, P. Rigaux: "The BASIS System: A Benchmarking Approach for Spatial Index Structures", *Proceedings STDBM'99*, pp.152-170, 1999.

[C13] A. N. Papadopoulos, P. Rigaux, M. Scholl: "A Performance Evaluation of Spatial Join Processing Strategies", *Proceedings SSD'99*, pp.286-307, 1999.

[C14] A. N. Papadopoulos, Y. Manolopoulos: "Structure-Based Similarity Search with Graph Histograms", *Proceedings of International Workshop on Similarity Search (IWSS'99)*, pp.174-178, 1999.

[C15] D. Katsaros, A. N. Papadopoulos and Y. Manolopoulos: "Technologies and Data Management Issues for Location-Aware Computing", *Proceedings of the Conference for the e-Democracy*, pp. 203-211, Athens, Greece, Sep 2003.

- [C16] M. Kontaki, A. N. Papadopoulos and Y. Manolopoulos: "Similarity Range Queries in Streaming Time Series", *Proceedings of the 4<sup>th</sup> International Workshop on Pattern Recognition in Information Systems (PRIS'04)*, Porto, Portugal, April 2004.
- [C17] M. Kontaki and A. N. Papadopoulos: "Efficient Similarity Search in Streaming Time Sequences", *Proceedings of International Conference on Scientific and Statistical Database Management (SSDBM'04)*, Santorini, Greece, June 2004.
- [C18] Y. Karydis, A. Nanopoulos, A. N. Papadopoulos and Y. Manolopoulos: "Audio Indexing for Efficient Music Information Retrieval", *Proceedings of the 11<sup>th</sup> International Multimedia Modeling Conference (MMM'05)*, IEEE CS Press, Melbourne, Australia, January 2005.
- [C19] Y. Karydis, A. Nanopoulos, A. N. Papadopoulos and Y. Manolopoulos: "Music Retrieval in P2P Networks Under the Warping Distance", *Proceedings of the 7<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS'05)*, Miami, FL, USA, 24-28 May, 2005.
- [C20] Raptopoulou, A. N. Papadopoulos and Y. Manolopoulos: "Incremental Nearest-Neighbor Search in Moving Objects", *Proceedings of IEEE International Conference on Pervasive Services (ICPS'05)*, Santorini Island, 2005.
- [C21] M. Kontaki, A. N. Papadopoulos and Y. Manolopoulos: "Continuous Trend-Based Classification of Streaming Time Series", *Proceedings of the 9<sup>th</sup> East-European Symposium on Advances in Databases and Information Systems (ADBIS'05)*, Tallin, Estonia, 2005.
- [C22] A. N. Papadopoulos, A. Nanopoulos and Y. Manolopoulos: "Closest-Pair Queries with Spatial Constraints", *Proceedings of the 10<sup>th</sup> Panhellenic Conference on Informatics (PCI'05)*, Volos, Greece, 2005.
- [C23] I. Karydis, A. Nanopoulos, A. N. Papadopoulos, D. Katsaros and Y. Manolopoulos: "Content-based Music Information Retrieval in Wireless Ad-Hoc Networks", *Proceedings of the 6<sup>th</sup> International Conference on Music Information Retrieval (ISMIR'05)*, London, UK, 2005.
- [C24] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos: "Collaborative Filtering based on Users Trends", *Proceedings of the 30th Annual Conference of the German Classification Society (GfKI'06)*, March 8-10, Berlin, Germany, 2006.
- [C25] D. Stjanovic, S.D.-Kajan, A. N. Papadopoulos and A. Nanopoulos: "Continuous Range Query Processing for Network Constrained Mobile Objects", *Proceedings of the 8<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS'06)*, 2006.
- [C26] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos: "Scalable Collaborative Filtering Based on Latent Semantic Indexing", *Proceedings of the IJCAI Workshop on Intelligent Techniques for Web Personalization (ITWP'06)*, 2006.
- [C27] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos: "Nearest-Biclusters Collaborative Filtering", *Proceedings of the 8th ACM SIGKDD Workshop on Web Mining and Web Usage Analysis (WEBKDD'06)*, Philadelphia, Pennsylvania, 2006.
- [C28] A. Nanopoulos, A. N. Papadopoulos, T. Welzer-Druzovec, Y. Manolopoulos: "Item-based Classification for Robustness Against Noise", *Proceedings of the 2<sup>nd</sup> ADBIS Workshop on Data Mining and Knowledge Discovery (ADMK'06)*, Thessaloniki, Greece, 2006.
- [C29] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos: "Collaborative Filtering: Fallacies and Insights in Measuring Similarity", *Proceedings of the PKDD Workshop on Web Mining (WebMine'06)*, Berlin, Germany, 2006
- [C30] P. Symeonidis, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos: "Collaborative Filtering Process in a Whole New Light", *Proceedings of the 10<sup>th</sup> International Database Engineering and Applications Symposium (IDEAS'06)*, IEEE, New Delhi, India, 2006.
- [C31] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Efficient Incremental Subspace Clustering in Data Streams", *Proceedings of the 10<sup>th</sup> International Database Engineering and Applications Symposium (IDEAS'06)*, IEEE, New Delhi, India, 2006.

- [C32] E. Tiakas, A. N. Papadopoulos, A. Nanopoulos, Y. Manolopoulos, D. Stojanovic, S. Djordjevic-Kajan: "Trajectory Similarity Search in Spatial Networks", *Proceedings of the 10<sup>th</sup> International Database Engineering and Applications Symposium (IDEAS'06)*, IEEE, New Delhi, India, 2006.
- [C33] A. Nanopoulos, A. Nikolaidis, A. N. Papadopoulos: "Broadcasting Images in Wireless Networks", *Proceedings of the 8<sup>th</sup> IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM'07)*, IEEE, Helsinki, Finland, 2007.
- [C34] I. Karydis, A. Nanopoulos, A. N. Papadopoulos, E. Cambouropoulos, Y. Manolopoulos: "Horizontal and Vertical Integration/Segregation in Auditory Streaming: A Voice Separation Algorithm for Symbolic Musical Data", *Proceedings of the 4<sup>th</sup> Sound and Music Computing Conference (SMC'07)*, Lefkada, Greece, July 11-13, 2007.
- [C35] A. N. Papadopoulos, A. Lyritsis, A. Nanopoulos, Y. Manolopoulos: "Domination Mining and Querying", *Proceedings of the 9<sup>th</sup> International Conference on Data Warehousing and Knowledge Discovery (DaWaK'07)*, pp.145-156, Regensburg, Germany, 2007.
- [C36] S. Ougiaroglou, A. Nanopoulos, A. N. Papadopoulos, Y. Manolopoulos, T. Welzer-Druzovec: "Adaptive k-Nearest Neighbor Classification Based on a Dynamic Number of Nearest Neighbors", *Proceedings of the 11<sup>th</sup> East-European Symposium on Advances in Databases and Information Systems (ADBIS'07)*, pp.66-82, Varna, Bulgaria, 2007.
- [C37] I. Karydis, A. Nanopoulos, A. N. Papadopoulos, E. Cambouropoulos: "VISA: The Voice Integration/Segregation Algorithm", *Proceedings of the 8<sup>th</sup> International Conference on Music Information Retrieval (ISMIR'07)*, Vienna, Austria, September 23-27, 2007.
- [C38] E. Tiakas, A. N. Papadopoulos, A. Nanopoulos, Y. Manolopoulos: "Selectivity Estimation in Spatial Networks", *Proceedings of the 23<sup>rd</sup> ACM Symposium on Applied Computing (ACM SAC'08), Track: Advances in Spatial and Image-Based Information Systems*, Fortaleza, Ceara, Brazil, March 16-20, 2008.
- [C39] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Continuous k-Dominant Skyline Computation on Multidimensional Data Streams", *Proceedings of the 23<sup>rd</sup> ACM Symposium on Applied Computing (ACM SAC'08), Track: Data Streams*, Fortaleza, Ceara, Brazil, March 16-20, 2008.
- [C40] A. N. Papadopoulos: "Trajectory Retrieval with Latent Semantic Analysis", *Proceedings of the 23<sup>rd</sup> ACM Symposium on Applied Computing (ACM SAC'08), Track: Information Access and Retrieval*, Fortaleza, Ceara, Brazil, March 16-20, 2008.
- [C41] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Continuous Top-k Dominating Queries in Subspaces", *Proceedings of the 12<sup>th</sup> Panhellenic Conference on Informatics (PCI'08)*, Samos Island, Greece, 2008.
- [C42] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Continuous Trend-Based Clustering in Data Streams", *Proceedings of the 10<sup>th</sup> International Conference on Data Warehousing and Knowledge Discovery (DaWaK'08)*, Turin, Italy, 2008.
- [C43] A. N. Papadopoulos, A. Lyritsis, Y. Manolopoulos: "SkyGraph: an Algorithm for Important Subgraph Discovery in Relational Graphs", *Proceedings European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD'08)*, Antwerp, Belgium, 2008.
- [C44] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Continuous k-Dominant Skyline Query in Data Streams", *Proceedings of the 7<sup>th</sup> Hellenic Data Management Symposium (HDMS'08)*, Heraklion, Crete, 2008.
- [C45] M. Kontaki, A. N. Papadopoulos, Y. Manolopoulos: "Continuous Processing of Preference Queries in Data Streams" (invited paper), *Proceedings of the 36<sup>th</sup> International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM'10)*, Czech Republic, 2010.
- [C46] A. Kaporis, A. N. Papadopoulos, S. Sioutas, K. Tsakalidis, K. Tsihlias: "Efficient Processing of 3-Sided Range Queries with Probabilistic Guarantees", *Proceedings of the 13<sup>th</sup> International Conference on Database Theory (ICDT'10)*, Lausanne, Switzerland, 2010.
- [C47] G. Valkanas, A. N. Papadopoulos: "Efficient and Adaptive Distributed Skyline Computation", *Proceedings of the 22<sup>nd</sup> International Conference on Scientific and Statistical Database Management (SSDBM'10)*, Heidelberg, Germany, 2010.

- [C48] E. Tiakas, A. N. Papadopoulos, Y. Manolopoulos: "Estimation of the Maximum Domination Value in Multi-Dimensional Data Sets", *Proceedings of the 14<sup>th</sup> East-European Conference on Advances in Databases and Information Systems (ADBIS'10)*, Novi Sad, Serbia, 2010.
- [C49] M. Kontaki, A. Gounaris, A. N. Papadopoulos, K. Tsihclas: "Continuous Monitoring of Distance-Based Outliers over Data Streams", *Proceedings of the 27<sup>th</sup> IEEE International Conference on Data Engineering (ICDE'11)*, Hannover, Germany, 2011.
- [C50] A. Lyritsis, A. N. Papadopoulos, Y. Manolopoulos: "TAGs: Efficient Threshold-Based Algorithms for Proximity Computation in Graphs", *Proceedings of the 14<sup>th</sup> International Conference on Extending Database Technology (EDBT'11)*, Uppsala, Sweden, 2011.
- [C51] G. Latsiou, A. N. Papadopoulos: "Incremental Discovery of Top-k Correlative Subgraphs", *Panhellenic Conference on Informatics (PCI'11)*, Kastoria, Greece, 2011.
- [C54] D. Georgiadis, M. Kontaki, A. Gounaris, A. N. Papadopoulos, K. Tsihclas, Y. Manolopoulos: "Continuous Outlier Detection in Data Streams: an Extensible Framework and State-of-the-Art Algorithms", *Proceedings of the ACM SIGMOD International Conference on Management of Data, [demo track]*, New York, NY, USA, 2013.
- [C55] E. Valari, A. N. Papadopoulos: "Continuous Similarity Computation over Streaming Graphs", *Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD)*, Prague, Czech Republic, 2013.
- [C56] A. Kosmatopoulos, K. Tsihclas, A. N. Papadopoulos: "Dynamic Processing of Dominating Queries with Performance Guarantees", *Proceedings of the 17th International Conference on Database Theory (ICDT)*, Athens, Greece, 2014.
- [C57] E. Tiakas, G. Valkanas, A. N. Papadopoulos, Y. Manolopoulos, D. Gunopoulos: "Metric-Based Top-k Dominating Queries", *Proceedings of the 17th International Conference on Extending Database Technology (EDBT)*, Athens, Greece, 2014.
- [C58] C. Loglisci, D. Malerba, A. N. Papadopoulos: "Mining Trajectory Data for Discovering Communities of Moving Objects", *Proceedings of the International Workshop on Mining Urban Data (MUD). Co-located with EDBT/ICDT*, Athens, Greece, 2014.
- [C59] G. Valkanas, A. N. Papadopoulos, D. Gunopoulos: "Skyline Ranking a la IR", *Proceedings of the International Workshop on Exploratory Search in Databases and the Web (ExploreDB). Co-located with EDBT/ICDT*, Athens, Greece, 2014.

## 6. SERVICE

### PC Member in Conferences and Workshops

- ♣ The EDBT Workshop on Clustering Information over the Web (ClustWeb) 2004, Heraklion, Greece, 2004.
- ♣ The International Workshop on Challenges in Web Information Retrieval and Integration (WIRI), Tokyo, Japan (In conjunction with ICDE 2005), 2005.
- ♣ The IWDMA Workshop of the International MultiConference of Engineers and Computer Scientists (IMECS), 2006.
- ♣ Advances in Querying Non-Conventional Data Sources, 3rd International Advanced Database Conference (IADC), 2007.
- ♣ The International Workshop on Application and Security Service in Web and Pervasive Environments (ASWAN), 2007.
- ♣ The IEEE International Conference on Information Reuse and Integration (IEEE IRI), 2008.
- ♣ The 2nd International Workshop on Web and Pervasive Security (WPS), 2008.
- ♣ The 12th East-European Conference on Advances in Databases and Information Systems (ADBIS), 2008.
- ♣ The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), 2010.
- ♣ The 19<sup>th</sup> ACM International Conference on Information and Knowledge Management (CIKM), 2010.
- ♣ The 9<sup>th</sup> International Conference on Advances in Pattern Recognition (ICAPR), 2011.
- ♣ The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), 2011
- ♣ The 12<sup>th</sup> International Symposium on Spatial and Temporal Databases (SSTD), 2011.



- ⤴ The 13<sup>th</sup> International Conference on Data Warehousing and Knowledge Discovery (DaWaK), 2011.
- ⤴ The 24<sup>th</sup> International Conference on Scientific and Statistical Database Management (SSDBM), 2012.
- ⤴ The 1<sup>st</sup> International Conference on Pattern Recognition Applications and Methods (ICPRAM), 2012.
- ⤴ The 15<sup>th</sup> Asia-Pacific Web Conference (APWEB), 2013.
- ⤴ The 15<sup>th</sup> International Conference on Data Warehousing and Knowledge Discovery (DaWaK), 2013.
- ⤴ The 2<sup>nd</sup> International Conference on Pattern Recognition Applications and Methods (ICPRAM), 2013.
- ⤴ The 12<sup>th</sup> International ACM Workshop on Data Engineering for Wireless and Mobile Access (MobiDe), 2013.
- ⤴ The 6<sup>th</sup> International Conference on Similarity Search and Applications (SISAP), 2013.
- ⤴ The 13<sup>th</sup> International Symposium on Spatial and Temporal Databases (SSTD), 2013.
- ⤴ The 16<sup>th</sup> Asia-Pacific Web Conference (APWEB), 2014.
- ⤴ The ACM International Conference on Information and Knowledge Management, 2014.
- ⤴ The 16<sup>th</sup> International Conference on Data Warehousing and Knowledge Discovery (DaWaK), 2014.
- ⤴ The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), 2014.
- ⤴ The 3<sup>rd</sup> International Conference on Pattern Recognition Applications and Methods (ICPRAM), 2014.
- ⤴ The 12<sup>th</sup> IEEE International Symposium on Parallel and Distributed Processing with Applications (IEEE ISPA), 2014.
- ⤴ The 11<sup>th</sup> International Conference on Mobile Web Information Systems (MobiWIS), 2014.
- ⤴ 15<sup>th</sup> International Conference on Web Information System Engineering (WISE), 2014.

### **PC Co-Chair**

- ⤴ Track co-chair in ACM Symposium on Applied Computing, Track DTTA (Database Technology, Techniques and Applications) from 2005 – now.

### **Reviewer in Journals**

- ⤴ The VLDB Journal
- ⤴ ACM Transactions on Database Systems
- ⤴ Data and Knowledge Engineering
- ⤴ IEEE Transactions on Knowledge and Data Engineering
- ⤴ Information Systems
- ⤴ Information Sciences
- ⤴ Knowledge and Information Systems

## **7. RECOGNITION**

Citations: 1818 (Google Scholar)

Best Paper Awards: Best Knowledge Discovery Paper in ECML/PKDD 2008.

I always get very positive feedback from students and get high marks in the quality assessment of my courses which is performed every semester.