

# CURRICULUM VITAE

**Dr. Yannis Theodoridis**

Professor, University of Piraeus

Last update 12.01.2016

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## ***I. PERSONAL DATA***

**Office:** Department of Informatics,  
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**Place, Date of Birth:** Athens, Greece, December 14, 1967

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## ***II. EDUCATION***

- **(1996) Dr. Eng. Degree:** Computer Science Division, Dept. of Electrical and Computer Engineering, National Technical University of Athens (NTUA), Greece. Title of Doctoral Dissertation: “*Spatial Data Structures: Analytical Models and Efficient Algorithms*”. Thesis advisor: Prof. Timos Sellis.
- **(1990) Diploma Eng. Degree:** Dept. of Electrical Engineering, National Technical University of Athens (NTUA), Greece.

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## ***III. EXPERIENCE***

- **1/2002 – to date:** Faculty member (Professor, 01/2013-; Assoc. Professor, 08/2008-01/2013; Asst. Professor, 01/2002-08/2008), Department of Informatics, University of Piraeus. Field of expertise: Data Science.
- **1/1999 – 1/2002:** Researcher, Computer Technology Institute (CTI), Greece.
- **7/1997 – 12/1998:** Research Engineer, National Documentation Center (NDC), Greece.
- **3/1996 – 12/1998:** Research Engineer, Knowledge and Database Systems Lab., National Technical University of Athens (NTUA), Greece.

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## ***IV. RESEARCH INTERESTS & ACTIVITIES***

- **Research interests:**
  - **Data Science:** data analytics; data mining; privacy-preserving data mining.

- **Database Management:** database indexing & query processing; spatial / spatiotemporal database management.
- **Research activities:**

Founder and Head of the Information Management Lab (InfoLab) at the Department of Informatics, University of Piraeus ([infolab.cs.unipi.gr](http://infolab.cs.unipi.gr)). The group currently consists of 2 faculty members, 2 post-doc researchers, 3 PhD candidates, and several post- and under- graduate students. Also, co-founder of the Data Science Lab at the ICT School, University of Piraeus ([www.datastories.org](http://www.datastories.org)).

Participation in research projects/networks – all under the role of PI (since 2005):

  - (2012-15) “SEEK – Semantic Enrichment of Trajectory Knowledge Discovery”. EU research network funded by FP7/ PEOPLE Programme (funding: 61K €). [[www.seek-project.eu](http://www.seek-project.eu)]
  - (2011-14) “DATASIM – Data Science for Simulating the Era of Electric Vehicles”. EU research project funded by FP7/ICT/FET-Open Programme (funding: 246K €). [[www.datasim-fp7.eu](http://www.datasim-fp7.eu)]
  - (2009-13) “MOVE – Knowledge Discovery from Moving Objects”. EU research network funded by ESF/COST Programme. [[www.move-cost.info](http://www.move-cost.info)]
  - (2009-12) “MODAP – Mobility, Data Mining, and Privacy”. EU research project funded by FP7/ICT/FET-Open Programme (funding: 72K €). [[www.modap.org](http://www.modap.org)]
  - (2005-09) “GeoPKDD – Geographic Privacy-aware Knowledge Discovery and Delivery”. EU research project funded by FP6/IST/FET-Open Programme (funding: 280K €). [[www.geopkdd.eu](http://www.geopkdd.eu)]
- **PhD students supervision:**
  - Ongoing (3): Marios Vodas (2013-), Panagiotis Tampakis (2011-), Despina Kopanaki (2009-).
  - Completed (5): Nikos Giatrakos (2012), Evangelos Kotsifakos (2010), Gerasimos Marketos (2009), Elias Frentzos (2008), Irene Ntoutsis (2008).

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## ***V. TEACHING ACTIVITIES***

- **Teaching at the Univ. Piraeus:**
  - Since 2002: Database Management (under- and post-graduate level), Data Warehousing and Data Mining (under- and post-graduate level), Geographical Information Systems & Science (under- and post-graduate level), Maritime Information Systems (under- and post-graduate level).
- **Other Teaching:**
  - Visiting professor at Univ. Venice (Sep. 2013, Jun. 2010), KAUST (Jun. 2012, Jun. 2011), Ghent Univ. (Feb. 2012), Univ. Trento (Nov. 2011), Aalborg Univ. (Sep. 2011), Univ. Milan (May. 2011).
  - Invited seminar speaker at JRC (8-11 Apr. 2013), Univ. Cyprus (12-15 Nov. 2012), Univ. Trento (17 Nov. 2011), NCSR Demokritos (12 Jul. 2011), Univ. Zurich (12 Apr. 2011), Univ. Athens (14 May. 2010).

- Conference tutorial presenter at EDBT'09 (with Fosca Giannotti and Dino Pedreschi), ECML/PKDD'05 (with Myra Spiliopoulou and Irene Ntoutsi), ADBIS'05, ADBIS-DASFAA'00, PCI'99.

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## **VI. SERVICE ACTIVITIES**

- **Member of Editorial Boards, Steering Committees, etc.**

- Member of Editorial Board, Int'l Journal of Data Warehousing and Mining – IJDWM (since 2004)
- Member of Endowment, Int'l Symposium on Spatial and Temporal Databases – SSTD (since 2010). During 2003-07, Member of SSTD Steering Committee.

- **Reviewer in Scientific Journals:**

IEEE Trans. Knowledge and Data Engineering (1995-), Data and Knowledge Engineering (1996-), Information Systems (1996-), The Computer J. (1996-), The VLDB J. (1998-), GeoInformatica (1998-), Information Processing Letters (2000-), Information and Software Technology (2000-), Knowledge and Information Systems (2003-), ACM Trans. Database Systems (2003-), Int'l J. Data Warehousing and Mining (Member of the Editorial Board, 2004-), IEEE Trans. Knowledge Discovery in Data (2006-), J. Visual Languages and Computing (2006-), Data Mining and Knowledge Discovery (2010-), ACM Trans. on Spatial Algorithms and Systems (2014-), etc.

- **Program Committee services:**

- PC Chair for the 6<sup>th</sup> Hellenic Data Management Symposium (HDMS), 2007.
- PC Vice-Chair for the 8<sup>th</sup> IEEE Int'l Conference on Data Mining (ICDM), 2008.
- Since 1999, PC member for several conferences, including: ACM CIKM (2002, 2006-2010, 2014), ACM KDD (2013), ACM MobiDE (2011), ACM PODS (2008, 2015), ACM SIGMOD (2001), ACM SIGSPATIAL GIS (2011, 2012), ECML/PKDD (2008, 2012), IEEE ICDE (2002, 2005, 2007, 2008, 2014), IEEE ICDM (2004-2010), IEEE MDM (2012, 2013), SIAM Data Mining (2009), SSD/SSTD (1999-2015).

- **Editorial services:**

- Guest editor:
  - Int. J. Data Warehousing & Mining, special issue on GeoPKDD project results, vol. 7(1): 2011.
  - Int. J. Business Intelligence & Data Mining, special issue on “KDD for Decision Making and Optimisation”, vol. 3(1):2008.
- Proceedings editor:
  - *Pattern Representation and Management - Proceedings of the Intl. Workshop (PARMA'04)*, in conjunction with the 9<sup>th</sup> Int. Conference on Extending Database Technology (EDBT 2004). CEUR Workshop Proceedings 96 CEUR-WS.org 2004 (with P. Vassiliadis).

- *Advances in Spatial and Temporal Databases - Proceedings of 8<sup>th</sup> Int'l Symposium (SSTD'03)*. Springer-Verlag LNCS #2750. ISBN 3-540-40535-6. (with T. Hadzilacos, Y. Manolopoulos, J. F. Roddick)
- **Conference organizational services:**
  - General co-Chair, 16<sup>th</sup> Panhellenic Conference on Informatics (PCI), Piraeus, Greece, Oct. 2012 (with Sokratis Katsikas).
  - General co-Chair, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), Athens, Greece, Sep. 2011 (with Aris Likas).
  - Organizing Committee Chair, 1<sup>st</sup> Summer School on Mobility, Data Mining, and Privacy (MODAP), Rhodes, Greece, Sep. 2010.
  - Stream co-chair, “Data Mining and Knowledge Discovery” Stream at the European Conference on Operational Research (EURO), Bonn, Germany, Jul. 2009 (with Nikos Pelekis).
  - Stream co-chair, “Data Mining and Knowledge Discovery” Stream at the European Conference on Operational Research (EURO), Prague, Czech Republic, Jul. 2007 (with Gennady Andrienko, Fosca Giannotti, Myra Spiliopoulou, Michalis Vazirgiannis).
  - Workshop co-chair, 2<sup>nd</sup> Int'l Workshop on “Pattern Representation and Management” (PaRMa) at the 10<sup>th</sup> Int. Conference on Extending Database Technology (EDBT), Munich, Germany, Mar. 2006 (with Myra Spiliopoulou, Panos Vassiliadis).
  - Workshop co-chair, 1<sup>st</sup> Int'l Workshop on Pattern Representation and Management (PaRMa) at the 9<sup>th</sup> Int. Conference on Extending Database Technology (EDBT), Heraklion – Crete, Greece, Mar. 2004 (with Panos Vassiliadis).
  - General co-Chair for the 8<sup>th</sup> Int'l Symposium on Spatial and Temporal Databases (SSTD), Santorini island, Greece, Jul. 2003.
  - Organizing Committee Chair for the 1<sup>st</sup> Hellenic Data Management Symposium (HDMS), Athens, Greece, Jul. 2002.
- **Memberships in Scientific Societies:**
  - IEEE Computer Science
  - ACM (special interest groups: SIGMOD, SIGKDD, SIGSPATIAL)

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## VII. PUBLICATIONS (& CITATION INFO)

### MONOGRAPHS

- [M03] PELEKIS, N., THEODORIDIS, Y. (2014): *Mobility Data Management and Exploration*. Springer, New York. ISBN: 978-1-4939-0391-7.
- [M02] MANOLOPOULOS, Y., NANOPOULOS, A., PAPADOPOULOS, A. N., THEODORIDIS, Y. (2005): *R-trees: Theory and Applications*. Springer, Berlin. ISBN 1-852-33977-2.
- [M01] MANOLOPOULOS, Y., THEODORIDIS, Y., TSOTRAS, V. J. (1999): *Advanced Database Indexing*. Kluwer Academic Publishers, Boston. ISBN: 0-792-37716-8.

#### ARTICLES IN REFEREED JOURNALS

- [J36] FILETO, R., MAY, C., RENSO, C., PELEKIS, N., KLEIN, D., **THEODORIDIS, Y.** (2015): The *Baquara*<sup>2</sup> Knowledge-based Framework for Semantic Enrichment and Analysis of Movement Data. *Data and Knowledge Engineering*, 98: 104-122.
- [J35] KONSTANTINIDIS, A., CHATZIMILIOUDIS, G., ZEINALIPOUR-YAZTI, D., MPEIS, P., PELEKIS, N., **THEODORIDIS, Y.** (2015): Privacy-Preserving Indoor Localization on Smartphones. *IEEE Transactions on Knowledge and Data Engineering*, 27(11): 3042-3055.
- [J34] PELEKIS, N., FRENTZOS, E., GIATRAKOS, N., **THEODORIDIS, Y.** (2015): HERMES: A Trajectory DB Engine for Mobility-Centric Applications. *Int'l Journal of Knowledge-based Organizations*, 5(3).
- [J33] PELEKIS, N., FRENTZOS, E., GIATRAKOS, N., **THEODORIDIS, Y.** (2014): On the Support of Mobility in ORDBMS. *Int'l Journal of Knowledge-based Organizations*, 4(1):38-64.
- [J32] PELEKIS, N., **THEODORIDIS, Y.**, JANSSENS, D. (2013): On the Management and Analysis of Our Lifestyles. *SIGKDD Explorations*, 15(1), pp. 23-32.
- [J31] KELLARIS, G., PELEKIS, N., **THEODORIDIS, Y.** (2013): Map-Matched Trajectory Compression. *Journal of Systems and Software*, 86(6), pp. 1566-1579.
- [J30] PARENT, C., SPACCAPIETRA, S., RENSO, C., ANDRIENKO, G., ANDRIENKO, N., BOGORNY, V., DAMIANI, M. L., GKOUALAS-DIVANIS, A., MACEDO, J., PELEKIS, N., **THEODORIDIS, Y.**, YAN, Z. (2013): Semantic Trajectories Modeling and Analysis. *ACM Computing Surveys*, 45(4).
- [J29] GIATRAKOS, N., KOTIDIS, Y., DELIGIANNAKIS, A., VASSALOS, V., **THEODORIDIS, Y.** (2013): "In-Network Approximate Computation of Outliers with Quality Guarantees", *Information Systems*, 38(8):1285-1308.
- [J28] PANAGIOTAKIS, C., PELEKIS, N., KOPANAKIS, I., RAMASSO, E., **THEODORIDIS, Y.** (2012): "Segmentation and Sampling of Moving Object Trajectories based on Representativeness", *IEEE Transactions on Knowledge and Data Engineering*, 24(7):1328-1343.
- [J27] NTOUTSI, I., SPILIOPOULOU, M., **THEODORIDIS, Y.** (2012): "FINGERPRINT – Summarizing Cluster Evolution in Dynamic Environments", *Int'l Journal of Data Warehousing and Mining (IJDWM)*, 8(3):27-45.
- [J26] PELEKIS, N., ANDRIENKO, G., ANDRIENKO, N., KOPANAKIS, I., MARKETOS, G., **THEODORIDIS, Y.** (2012): "Visually Exploring Movement Data via Similarity-based Analysis", *Journal of Intelligent Information Systems (JIIS)*, 38(2).
- [J25] PELEKIS, N., KOPANAKIS, I., KOTSIFAKOS, E.E., FRENTZOS, E., **THEODORIDIS, Y.** (2011): "Clustering Uncertain Trajectories", *Knowledge and Information Systems (KAIS)*, 28(1):117-147.
- [J24] IAKOVIDIS, D.K., PELEKIS, N., KOTSIFAKOS, E.E., KOPANAKIS, I., KARANIKAS, H., **THEODORIDIS, Y.** (2009): "A Pattern Similarity Scheme for Medical Image Retrieval", *IEEE Transactions on Information Technology in Biomedicine*, 13(4):442-450.
- [J23] NTOUTSI, I., SPILIOPOULOU, M., **THEODORIDIS, Y.** (2009): "Tracing Cluster Transitions for Different Cluster Types", *Control & Cybernetics*, 38(1):239-260.

- [J22] FRENTZOS, E., GRATSIAS, K., **THEODORIDIS, Y.** (2009): "On the Effect of Location Uncertainty in Spatial Querying", *IEEE Transactions on Knowledge and Data Engineering*, 21(3):366-383.
- [J21] BARTOLINI, I., CIACCIA, P., NTOUTSI, I., PATELLA, M., **THEODORIDIS, Y.** (2009): "The PANDA Framework for Comparing Patterns", *Data & Knowledge Engineering*, 68(2):244-260.
- [J20] MARKETOS, G., **THEODORIDIS, Y.**, KALOGERAS, I. (2008): "Seismological Data Warehousing and Mining", *Int'l Journal of Data Warehousing and Mining*, 4(1):1-16.
- [J19] VERYKIOS, V.S., PONTIKAKIS, E.D., **THEODORIDIS, Y.**, CHANG, L. (2007): "Efficient Algorithms for Distortion and Blocking Techniques in Association Rule Hiding", *Distributed and Parallel Databases*, 22(1):85-104.
- [J18] FRENTZOS, E., GRATSIAS, K., PELEKIS, N., **THEODORIDIS, Y.** (2007): "Algorithms for Nearest Neighbor Search on Moving Object Trajectories", *GeoInformatica*, 11(2):159-193.
- [J17] NANOPOULOS, A., **THEODORIDIS, Y.**, MANOLOPOULOS, Y. (2006): "Indexed-based Density Biased Sampling for Clustering Applications", *Data & Knowledge Engineering*, 57(1):37-63.
- [J16] CORRAL, A., MANOLOPOULOS, Y., **THEODORIDIS, Y.**, VASSILAKOPOULOS, M. (2006): "Cost Models for Distance Joins Queries using R-trees", *Data & Knowledge Engineering*, 57(1):1-36.
- [J15] PELEKIS, N., THEODOULIDIS, B., KOPANAKIS, I., **THEODORIDIS, Y.** (2005): "Fuzzy Miner: Extracting Fuzzy Rules from Numerical Patterns", *Int'l Journal of Data Warehousing and Mining*, 1(1):57-81.
- [J14] CORRAL, A., MANOLOPOULOS, Y., **THEODORIDIS, Y.**, VASSILAKOPOULOS, M. (2004): "Multi-way Distance Join Queries in Spatial Databases", *GeoInformatica*, 8(4):373-402.
- [J13] PELEKIS, N., THEODOULIDIS, B., KOPANAKIS, I., **THEODORIDIS, Y.** (2004): "Literature Review of Spatio-Temporal Database Models", *Knowledge Engineering Review*, 19(3):235-274.
- [J12] CORRAL, A., MANOLOPOULOS, Y., **THEODORIDIS, Y.**, VASSILAKOPOULOS, M. (2004): "Algorithms for Processing K-Closest Pair Queries in Spatial Databases", *Data & Knowledge Engineering*, 49(1):67-104.
- [J11] VERYKIOS, V. S., BERTINO, E., FOVINO, I. N., PARASILITY PROVENZA, L., SAYGIN, Y., **THEODORIDIS, Y.** (2004): "State-of-the-art in Privacy Preserving Data Mining", *SIGMOD Record*, 33(1):50-57.
- [J10] **THEODORIDIS, Y.** (2003): "Ten Benchmark Database Queries for Location-based Services", *The Computer Journal*, 46(6):713-725.
- [J09] PFOSER, D., **THEODORIDIS, Y.** (2003): "Generating Semantics-Based Trajectories of Moving Objects", *Int'l Journal of Computers, Environment and Urban Systems*, special issue on Emerging Technologies for Geo-Based Applications, 27(3):243-263.
- [J08] PAPADIAS, D., N. MAMOULIS, **Y. THEODORIDIS** (2001): "Constraint-based Processing of Multi-way Spatial Joins", *Algorithmica*, special issue on Algorithms for Geographic Information, 30(2):188-215.
- [J07] **THEODORIDIS, Y.**, NASCIMENTO, M. A. (2000): "Generating Spatiotemporal Datasets on the WWW", *SIGMOD RECORD*, 29(3):39-43.

- [J06] **THEODORIDIS, Y.**, STEFANAKIS, E., SELLIS, T. (2000): “Efficient Cost Models for Spatial Queries Using R-trees”, *IEEE Transactions on Knowledge and Data Engineering*, 12(1):19-32.
- [J05] **THEODORIDIS, Y.**, PAPADIAS, D., STEFANAKIS, E., SELLIS, T. (1998): “Direction Relations and Two-Dimensional Range Queries: Optimisation Techniques”, *Data & Knowledge Engineering*, 27(3):313-336.
- [J04] VAZIRGIANNIS, M., **THEODORIDIS, Y.**, SELLIS, T. (1998): “Spatio-Temporal Composition and Indexing for Large Multimedia Applications”, *ACM / Springer Multimedia Systems Journal*, 6(4): 284-298.
- [J03] PAPADIAS, D., **THEODORIDIS, Y.**, STEFANAKIS, E. (1997): “Multi-Dimensional Range Query Processing with Spatial Relations”, *Geographical Systems Journal*, 4(4):343-365.
- [J02] STEFANAKIS, E., **THEODORIDIS, Y.**, SELLIS, T., LEE, Y. C. (1997): “Point Representation of Spatial Objects and Query Window Extension: A New Technique for Spatial Access Methods”, *Int'l Journal of Geographical Information Science*, 11(6):529-554.
- [J01] PAPADIAS, D., **THEODORIDIS, Y.** (1997): “Spatial Relations, Minimum Bounding Rectangles, and Spatial Data Structures”, *Int'l Journal of Geographical Information Science*, 11(2): 111-138.

#### BOOK CHAPTERS

- [B06] G. MARKETOS, M. L. DAMIANI, N. PELEKIS, **Y. THEODORIDIS**, Z. YAN. “Trajectory Collection and Reconstruction”, in C. Renso, S. Spaccapietra, and E. Zimányi (eds.) *Mobility Data: Modeling, Management, and Understanding*, Cambridge University Press, 2013. ISBN: 9781107021716.
- [B05] E. KOTSIFAKOS, G. MARKETOS, **Y. THEODORIDIS**, “A Framework for Integrating Ontologies and Pattern-Bases”, in H.O. Nigro, S.E.G. Cisaró, D.H. Xodo (eds.) *Data Mining with Ontologies: Implementations, Findings, and Frameworks*, Information Science Reference, 2008, pp. 237-255.
- [B04] I. NTOUTSI, N. PELEKIS, **Y. THEODORIDIS**, “Pattern Comparison in Data Mining: A Survey”, in D. Taniar (ed.) *Research and Trends in Data Mining Technologies and Applications*, IDEA Group Publishing, 2007. Also appears in J. Wang (ed.) *Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications*, Information Science Reference, 2008.
- [B03] N. MAMOULIS, **Y. THEODORIDIS**, D. PAPADIAS: “Spatial Joins: Algorithms, Cost Models and Optimization”, in Y. Manolopoulos, A. Papadopoulos, M. Vassilakopoulos (eds.) *Spatial Databases: Technologies, Techniques and Trends*, Idea Group Publishing, 2005.
- [B02] **Y. THEODORIDIS**: “Seismo-Surfer: A Prototype for Collecting, Querying, and Mining Seismic Data”, in Y. Manolopoulos, S. Evripidou, A. Kakas (eds.) *Advances in Informatics - Post-proceedings of the 8th Panhellenic Conference in Informatics*, Lecture Notes in Computer Science #2563, Springer-Verlag, Berlin, 2003.
- [B01] A. DI PASQUALE, L. FORLIZZI, C.S. JENSEN, Y. MANOLOPOULOS, E. NARDELLI, D. PFOSE, G. PROIETTI, S. SALTENIS, **Y. THEODORIDIS**, T. TZOURAMANIS, M. VASSILAKOPOULOS: “Access Methods and Query Processing Techniques”, in T. Sellis, M. Koubarakis et al. (eds.)

PAPERS IN FULLY REFEREED INT'L CONFERENCES, SYMPOSIA AND WORKSHOPS

- [C73] KONSTANTINIDIS, A., CHATZIMILIOUDIS, G., ZEINALIPOUR-YAZTI, D., MPEIS, P., PELEKIS, N., **THEODORIDIS, Y.**: Privacy-Preserving Indoor Localization on Smartphones (extended abstract). *Proceedings of the 32<sup>nd</sup> IEEE Int'l Conference on Data Engineering (ICDE)*, Helsinki, Finland, May 2016. IEEE Press.
- [C72] D. KOPANAKI, V. THEODOSSOPOULOS, N. PELEKIS, I. KOPANAKIS, **Y. THEODORIDIS**: "Who Cares about Others' Privacy: Personalized Anonymization of Moving Object Trajectories", *Proceedings of the 19<sup>th</sup> Int'l Conference on Extending Database Technology (EDBT)*, Bordeaux, France, March 2016. ACM Press.
- [C71] COSTA, C. F., NASCIMENTO, M., MACEDO, J., **THEODORIDIS, Y.**, PELEKIS, N., MACHADO, J.: "Optimal Time-dependent Sequenced Route Queries in Road Networks", short paper, *Proceedings of the 23<sup>rd</sup> ACM SIGSPATIAL Int'l Conference on Advances in Geographic Information Systems*, Seattle - Washington, USA, November 2015. ACM Press.
- [C70] ALEVIZOS, E., ARTIKIS, A., PATROUMPAS, K., VODAS, M., **THEODORIDIS, Y.**, PELEKIS, N.: "How not to drown in a sea of information: An event recognition approach", short paper, *Proceedings of the 3<sup>rd</sup> IEEE Int'l Conference on Big Data*, Santa Clara - CA, USA, October-November 2015. IEEE Press.
- [C69] N. PELEKIS, S. SIDERIDIS, **Y. THEODORIDIS**: "Hermes<sup>sem</sup>: a Semantic-aware Framework for the Management and Analysis of our LifeSteps", *Proceedings of the 2<sup>nd</sup> IEEE Int'l Conference on Data Science and Advanced Analytics (DSAA)*, Paris, France, October 2015. IEEE Press.
- [C68] K. PATROUMPAS, A. ARTIKIS, N. KATZOURIS, M. VODAS, **Y. THEODORIDIS**, N. PELEKIS: "Event Recognition for Maritime Surveillance", industrial paper, *Proceedings of the 18<sup>th</sup> Int'l Conference on Extending Database Technology (EDBT)*, Brussels, Belgium, March 2015. ACM Press.
- [C67] B. KROGH, N. PELEKIS, **Y. THEODORIDIS**, K. TORP: "Path-based Queries on Trajectory Data", *Proceedings of the 22<sup>nd</sup> ACM SIGSPATIAL Int'l Conference on Advances in Geographic Information Systems*, Dallas - Texas, USA, November 2014. ACM Press. **Best paper award.**
- [C66] B. KROGH, O. ANDERSEN, E. LEWIS-KELHAM, N. PELEKIS, **Y. THEODORIDIS**, K. TORP: "Trajectory Based Traffic Analysis", demo paper, *Proceedings of the 21<sup>st</sup> ACM SIGSPATIAL Int'l Conference on Advances in Geographic Information Systems*, Orlando - Florida, USA, November 2013. ACM Press.
- [C65] R. FILETO, M. KRÜGER, N. PELEKIS, **Y. THEODORIDIS**, C. RENSO: "Baquara: A Holistic Ontological Framework for Movement Analysis with Linked Data", *Proceedings of the 32<sup>nd</sup> International Conference on Conceptual Modeling (ER)*, Hong Kong, November 2013. Springer. **Best paper award.**
- [C64] M. SPILIOPOULOU, E. NTOUTSI, **Y. THEODORIDIS**, R. SCHULT: "MONIC and Followups on Modeling and Monitoring Cluster Transitions", nectar track, *Proceedings of the European*



*Conference on Machine Learning / Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD)*, Prague, Czech Republic, September 2013. Springer.

- [C63] N. PELEKIS, C. NTRIGKOGIAS, P. TAMPAKIS, S. SIDERIDIS, **Y. THEODORIDIS**: “Hermoupolis: A Trajectory Generator for Simulating Generalized Mobility Patterns”, demo paper, *Proceedings of the European Conference on Machine Learning / Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD)*, Prague, Czech Republic, September 2013. Springer.
- [C62] E. FRENTZOS, N. PELEKIS, N. GIATRAKOS, **Y. THEODORIDIS**: “Cost Models for Nearest Neighbor Query Processing over Existentially Uncertain Spatial Data”, *Proceedings of the 13<sup>th</sup> Int’l Symposium on Spatial and Temporal Databases (SSTD)*, Munich, Germany, August 2013. Springer.
- [C61] A. DOULAMIS, N. PELEKIS, **Y. THEODORIDIS**: “EasyTracker: An Android Application for Capturing Mobility Behavior”, *Proceedings of the 16<sup>th</sup> Greek Computer Society Conference (PCI)*, Piraeus, Greece, October 2012. IEEE Press.
- [C60] N. PELEKIS, A. GKOUALAS-DIVANIS, M. VODAS, A. PLEMENOS, D. KOPANAKI, **Y. THEODORIDIS**: “Private-HERMES: A Benchmark Framework for Privacy-Preserving Mobility Data Querying and Mining Methods”, demo paper, *Proceedings of the 15<sup>th</sup> Int’l Conference on Extending Database Technology (EDBT)*, Berlin, Germany, March 2012. Springer.
- [C59] N. PELEKIS, A. GKOUALAS-DIVANIS, M. VODAS, D. KOPANAKI, **Y. THEODORIDIS**: “Privacy-aware Querying over Sensitive Trajectory Data”, *Proceedings of the 20<sup>th</sup> ACM Conference on Information and Knowledge Management (CIKM)*, Glasgow, Scotland - UK, October 2011. ACM Press.
- [C58] N. PELEKIS, E. STEFANAKIS, I. KOPANAKIS, C. ZOTALI, M. VODAS, **Y. THEODORIDIS**: “ChoroChronos.org: A GeoPortal for Movement Data and Processes”, poster paper, *Proceedings of the 10<sup>th</sup> Int’l Conference on Spatial Information Theory (COSIT)*, Maine, USA, September 2011.
- [C57] S. SIOUTAS, K. TSICHLAS, Y. MANOLOPOULOS, **Y. THEODORIDIS**: “NEFOS: Rapid Cache-Aware Range Query Processing with Probabilistic Guarantees”, *Proceedings of the 22<sup>nd</sup> Int’l Conference on Database and Expert Systems Applications (DEXA)*, Toulouse, France, August 2011. Springer.
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