

CURRICULUM VITAE

Dr. Yannis Theodoridis

Professor, University of Piraeus

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In short: Professor Yannis Theodoridis is faculty member with the Department of Informatics¹ and Director of the Data Science Lab², University of Piraeus³, also member of the Scientific Council of IMIS - Athena RIC⁴ and member of the General Assembly of the Hellenic Foundation for Research and Innovation (ELIDEK)⁵. He serves or has served as member of the editorial boards of ACM Computing Surveys (2016-) and the Int'l Journal on Data Warehousing and Mining (2005-), life-long member of the Symposium on Spatial and Temporal Databases - SSTD endowment (2010-), general co-chair for SSTD'03, ECML/PKDD'11 and PCI'12, co-organizer of PaRMa@EDBT'04, PaRMa@EDBT'06 and BiGQP'EDBT'17 workshops, PC vice-chair for IEEE ICDM'08, and PC member for numerous conferences, including SIGMOD, PODS, ICDE, KDD, and ICDM. Since 2001, he has participated as project coordinator or scientific / technical manager in a number of EU-funded research projects, with Horizon 2020 projects dataAcron (2016-18) and DART (2016-18) being the ongoing ones. His research interests include Data Science (big data management & analytics) for mobility data. He has co-authored three monographs and more than 100 refereed articles in scientific journals and conferences with over 9,500 citations according to Google Scholar⁶. He holds a Dipl. Eng. (1990) and Ph.D. (1996) in Computer Engineering, both from the National Technical University of Athens (NTUA). Personal homepage: <http://www.unipi.gr/faculty/ytheod/>.

¹ cs.unipi.gr

² datastories.org

³ unipi.gr

⁴ imis.athena-innovation.gr

⁵ elidek.gr (in Greek only)

⁶ <https://scholar.google.com/citations?user=1f5twhoAAAAJ>

I. PERSONAL DATA

Office: Department of Informatics,
School of Information and Communication Technologies (ICT),
University of Piraeus
Tel. +30-210-4142449, fax: +30-210-4142264
E-mail: ytheod@unipi.gr, URL: <http://www.unipi.gr/faculty/ytheod/>

Place, Date of Birth: Athens, Greece, December 14, 1967

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.

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.

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:**

Director, Data Science Lab @ ICT School (www.datastories.org). Also, founder and head of the Information Management Lab (InfoLab) @ Dept of Informatics (infolab.cs.unipi.gr). EU-funded Research projects/grants – all under the role of PI or co-PI (since 2005):

 - (2016.06-2018.06) “DART – Data-driven Aircraft Trajectory Prediction Research”. EU research project funded by Horizon 2020 / SESAR Programme (funding: 170K €). [dart-research.eu].

- (2016.01-2018.12) “DATACRON – Big Data Analytics for Time Critical Mobility Forecasting”. EU research project funded by Horizon 2020 / ICT Programme (funding: 730K €). [datacron-project.eu].
 - (2012-15) “SEEK – Semantic Enrichment of Trajectory Knowledge Discovery”. EU research network funded by FP7/ PEOPLE Programme (funding: 61K €). [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]
 - (2009-13) “MOVE – Knowledge Discovery from Moving Objects”. EU research network funded by ESF/COST Programme. [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]
 - (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]
- **PhD students supervision:**
 - Ongoing (5): John Kontoulis (2016-), Fragkiskos Gryllakis (2016-), 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).

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).
- **Other Teaching & Lecturing:**
 - Visiting professor / researcher at Univ. Zurich (Jan. 2016), Univ. Paris Descartes (Oct. 2015), 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 Ntoutsis), ADBIS’05, ADBIS-DASFAA’00, PCI’99.

VI. SERVICE ACTIVITIES

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

- Member of the General Assembly, Hellenic Foundation for Research and Innovation (ELIDEK) (2017 -)
- Member of the Scientific Council, IMIS Institute at 'Athena' Research Centre (2016 -)
- Member of Editorial Board, ACM Computing Surveys – CSUR (2016 -)
- Member of Editorial Board, Int'l Journal of Data Warehousing and Mining – IJDWM (since 2004)
- Member (lifelong) of Endowment, Int'l Symposium on Spatial and Temporal Databases – SSTD (since 2010). Member of the Board of Directors (2016-18).

- **Reviewer in Scientific Journals:**

Selected list: 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-), Knowledge and Information Systems (2003-), ACM Trans. Database Systems (2003-), IEEE Trans. Knowledge Discovery in Data (2006-), Data Mining and Knowledge Discovery (2010-), ACM Trans. on Spatial Algorithms and Systems (2014-), IEEE Comp. Graphics & Applications (2017-)

- **Program Committee services:**

- PC Chair for the 6th Hellenic Data Management Symposium (HDMS), 2007.
- PC Vice-Chair for the 8th 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), EDBT (2018), IEEE ICDE (2002, 2005, 2007, 2008, 2014), IEEE ICDM (2004-2010), IEEE MDM (2012, 2013), SIAM Data Mining (2009), SSD/SSTD (1999-2017).

- **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:
 - *Advances in Spatial and Temporal Databases - Proceedings of 8th 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:**

- Workshop co-chair, 1st Int'l Workshop on Big Geo Data Quality and Privacy (BIGQP), co-located with the 20th Int. Conference on Extending Database Technology (EDBT), Venice, Italy, Mar. 2017 (with Dimitris Kotzinos, Vassilis Christophides, Charalampos Nikolaou).
- General co-Chair, 16th 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, 1st 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, 2nd Int'l Workshop on “Pattern Representation and Management” (PaRMa), co-located with the 10th Int. Conference on Extending Database Technology (EDBT), Munich, Germany, Mar. 2006 (with Myra Spiliopoulou, Panos Vassiliadis).
- Workshop co-chair, 1st Int'l Workshop on Pattern Representation and Management (PaRMa), co-located with the 9th Int. Conference on Extending Database Technology (EDBT), Heraklion – Crete, Greece, Mar. 2004 (with Panos Vassiliadis).
- General co-Chair for the 8th Int'l Symposium on Spatial and Temporal Databases (SSTD), Santorini island, Greece, Jul. 2003.
- Organizing Committee Chair for the 1st Hellenic Data Management Symposium (HDMS), Athens, Greece, Jul. 2002.

- **Memberships in Scientific Societies:**

- IEEE Computer Science
- ACM (special interest groups: SIGMOD, SIGKDD, SIGSPATIAL)

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.

- [Mo2] MANOLOPOULOS Y, NANOPOULOS A, PAPADOPOULOS AN, THEODORIDIS Y (2005) *R-trees: Theory and Applications*. Springer, Berlin. ISBN 1-852-33977-2.
- [Mo1] MANOLOPOULOS Y, THEODORIDIS Y, TSOTRAS VJ (1999) *Advanced Database Indexing*. Kluwer Academic Publishers, Boston. ISBN: 0-792-37716-8.

ARTICLES IN REFEREED JOURNALS

- [J41] FURTADO AS, ALVARES L, PELEKIS N, THEODORIDIS Y (2017) Unveiling Movement uncertainty for robust trajectory similarity analysis. *International Journal of Geographical Information Science*, accepted.
- [J40] PELEKIS N, TAMPAKIS P, VODAS M, DOULKERIDIS C, THEODORIDIS Y (2017) On temporal-constrained sub-trajectory cluster analysis. *Data Mining and Knowledge Discovery*, first online.
- [J39] PATROUMPAS K, ALEVIZOS E, ARTIKIS A, VODAS M, PELEKIS N, THEODORIDIS Y (2017) Online event recognition from moving vessel trajectories. *Geoinformatica*, 21(2): 389-427.
- [J38] PELEKIS N, SIDERIDIS S, TAMPAKIS P, THEODORIDIS Y (2016) Simulating our LifeSteps by example. *ACM Transactions on Spatial Algorithms and Systems*, 2(3), article no. 11.
- [J37] SIDERIDIS S, PELEKIS N, THEODORIDIS Y (2016) On querying and mining semantic-aware mobility timelines. *Journal of Data Science & Analytics (JDSA)*, 2(1): 29-44.
- [J36] FILETO R, MAY C, RENSO C, PELEKIS N, KLEIN D, THEODORIDIS Y (2015) The *Baquara*² 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(2): 19-41.
- [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 Lifesteps. *SIGKDD Explorations*, 15(1): 23-32.
- [J31] KELLARIS G, PELEKIS N, THEODORIDIS Y (2013) Map-matched trajectory compression. *Journal of Systems and Software*, 86(6): 1566-1579.
- [J30] PARENT C, SPACCAPIETRA S, RENSO C, ANDRIENKO G, ANDRIENKO N, BOGORNY V, DAMIANI ML, GKOUALALAS-DIVANIS A, MACEDO J, PELEKIS N, THEODORIDIS Y, YAN Z (2013) Semantic trajectories modeling and analysis. *ACM Computing Surveys*, 45(4), article no. 42.

- [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*, 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*, 38(2): 343-391.
- [J25] PELEKIS N, KOPANAKIS I, KOTSIFAKOS EE, FRENTZOS E, THEODORIDIS Y (2011) Clustering uncertain trajectories. *Knowledge and Information Systems*, 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] PFOSE, 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.

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

- [C77] GRYLLAKIS F, PELEKIS N, DOULKERIDIS C, SIDERIDIS S, THEODORIDIS Y (2017) Searching for spatio-temporal-keyword patterns in semantic trajectories. *Proceedings of IDA*, London, UK. Springer LNCS.
- [C76] PELEKIS N, TAMPAKIS P, VODAS M, PANAGIOTAKIS C, THEODORIDIS Y (2017) In-DBMS sampling-based sub-trajectory clustering. *Proceedings of EDBT*, Venice, Italy. OpenProceedings.org.
- [C75] CLARAMUNT C, RAY C, SALMON L, CAMOSSO E, HADZAGIC M, JOUSSELME AL, ANDRIENKO G, ANDRIENKO N, THEODORIDIS Y, VOUIROS GA (2017) Maritime data integration and analysis: recent progress and research challenges [vision paper]. *Proceedings of EDBT*, Venice, Italy. OpenProceedings.org.
- [C74] NIKITOPOULOS P, PARASKEVOPOULOS AI, DOULKERIDIS C, PELEKIS N, THEODORIDIS Y (2016) BigCAB: distributed hot spot analysis over big spatio-temporal data using Apache Spark [GIS Cup]. *Proceedings of ACM SIGSPATIAL GIS*, San Francisco – CA, USA. ACM Press.
- [C73] KONSTANTINIDIS A, CHATZIMILIOUDIS G, ZEINALIPOUR-YAZTI D, MPEIS P, PELEKIS N, THEODORIDIS Y (2016) Privacy-preserving indoor localization on smartphones [extended abstract]. *Proceedings of ICDE*, Helsinki, Finland. IEEE Press.
- [C72] KOPANAKI D, THEODOSSOPOULOS V, PELEKIS N, KOPANAKIS I, THEODORIDIS Y (2016) Who cares about others’ privacy: personalized anonymization of moving object trajectories. *Proceedings of EDBT*, Bordeaux, France. OpenProceedings.org.
- [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 23rd 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 3rd IEEE Int’l Conference on Big Data*, Santa Clara – CA, USA, October-November 2015. IEEE Press.
- [C69] N. PELEKIS, S. SIDERIDIS, Y. THEODORIDIS: “Hermes^{sem}: a Semantic-aware Framework for the Management and Analysis of our LifeSteps”, *Proceedings of the 2nd 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 EDBT*, Brussels, Belgium, March 2015. OpenProceedings.org.
- [C67] B. KROGH, N. PELEKIS, Y. THEODORIDIS, K. TORP: “Path-based Queries on Trajectory Data”, *Proceedings of the 22nd 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 21st 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 32nd 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 13th 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 16th Greek Computer Society Conference (PCI)*, Piraeus, Greece, October 2012. IEEE Press.
- [C60] N. PELEKIS, A. GKOUALALAS-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 15th Int’l Conference on Extending Database Technology (EDBT)*, Berlin, Germany, March 2012. Springer.
- [C59] N. PELEKIS, A. GKOUALALAS-DIVANIS, M. VODAS, D. KOPANAKI, Y. THEODORIDIS: “Privacy-aware Querying over Sensitive Trajectory Data”, *Proceedings of the 20th 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 10th Int’l Conference on Spatial Information Theory (COSIT)*, Maine, USA, September 2011.
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