

CURRICULUM VITAE

Dr. Yannis Theodoridis

Professor, University of Piraeus

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***In short:** Dr. Yannis Theodoridis is Professor of Data Science with the Department of Informatics, University of Piraeus, Greece, currently serving as Dean of the School of Information and Communication Technologies (term 2017-21). He has participated in several boards, including the editorial board of ACM Computing Surveys (2016-19) and the Endowment of the Symposium on Spatial and Temporal Databases - SSTD (2010-). He has also served as general co-chair for SSTD'03 and ECML/PKDD'11, PC vice-chair for IEEE ICDM'08, and PC member for several conferences, including ACM SIGMOD/PODS, IEEE ICDE, ACM SIGKDD, IEEE ICDM, etc. Since 2001, he has been a (co-) principal investigator in several research projects funded by various government agencies (EU, Greece) through open calls. His research interests include Data Science (big data management & analytics) for humans' mobility-related information. He has co-authored three monographs and over 100 refereed articles in scientific journals and conferences, with over 10,000 citations so far, according to Google Scholar. He holds a Dipl. Eng. (1990) and Ph.D. (1996) in Computer Engineering, both from the National Technical University of Athens (NTUA). For more information: www.unipi.gr/faculty/ytheod/; www.datastories.org.*

I. PERSONAL DATA

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 <https://orcid.org/0000-0003-2589-7881>
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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.

III. POSITIONS

Current:

- **1/2002 - to date:** Faculty member, Department of Informatics, University of Piraeus (Professor, 01/2013-; Assoc. Professor, 08/2008-01/2013; Asst. Professor, 01/2002-08/2008). Field of expertise: Data Science.
 - 12/2017 - 8/2020: Dean, School of Information and Communication Technologies.
- **10/2016 - to date:** Member of the Scientific Council, IMIS Institute at ‘Athena’ Research Centre, Athens, Greece.

Past:

- **1/2017 - 6/2018:** Member of the General Assembly, Hellenic Foundation for Research and Innovation (HFRI), Greece.
- **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:**

Co-founder and Director, Data Science Lab @ ICT School (www.datastories.org). 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):

- (2018.01-2020.12) "Track & Know - Big Data for Mobility Tracking Knowledge Extraction in Urban Areas". EU research project funded by Horizon 2020 / ICT Programme (funding: 473K €). [track-and-know.eu].
- (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:**

- Completed (6): Panagiotis Tampakis (2019), Nikos Giatrakos (2012), Evangelos Kotsifakos (2010), Gerasimos Marketos (2009), Elias Frentzos (2008), Irene Ntoutsi (2008).
- Ongoing (5): Petros Petrou (2019-), John Kontoulis (2016-), Fragkiskos Gryllakis (2016-), Marios Vodas (2013-), Despina Kopanaki (2009-).

V. TEACHING - INSTRUCTOR ACTIVITIES

- **Teaching at the Univ. Piraeus:**
 - Since 2002: Database Management (under- and post-graduate level), Data Analytics - Data Mining (under- and post-graduate level), Geographical Information Systems & Science (under- and post-graduate level).
- **Other Instructor Activities:**
 - Instructor on "Mobility Data Science", 2nd ACM Europe Summer School on Data Science, Athens (Jul. 2018) [more info at: summerschool.acm.org/2018].
 - 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 Ntoutsi), ADBIS'05, ADBIS-DASFAA'00, PCI'99.

VI. DISTINCTIONS, SERVICE ACTIVITIES, etc.

- **Keynote Speaker:**
 - Invited talk, "Learning from our movements - The mobility data analytics pipeline", Workshop on Multiple-Aspect Analysis of Semantic Trajectories (MASTER'19), joint with EDBT/ICDT Conference, Würzburg, Germany, September 2019.
- **Member of Editorial Boards, Steering Committees, Endowments, etc.**
 - Member of Editorial Board, ACM Computing Surveys - CSUR (2016-19)
 - Member of Editorial Board, Int'l Journal of Data Warehousing and Mining - IJDWM (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 (since): 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 PODS (2008, 2015), ACM SIGMOD (2001), ACM SIGSPATIAL GIS (2011-2012, 2018-2019), ECML/PKDD (2008, 2012), EDBT (2018, 2019), IEEE ICDE (2002, 2005, 2007, 2008, 2014), IEEE ICDM (2004-2010), SIAM Data Mining (2009, 2018).
- **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, Int'l Workshop series on Big Mobility Data Analytics (BMDA), co-located with the Int. Conference on Extending Database Technology (EDBT): Mar. 2020 (Copenhagen, Denmark), Mar. 2019 (Lisbon, Portugal), Mar. 2018 (Vienna, Austria).
 - 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).
 - Workshop co-chair, Int'l Workshop series on “Pattern Representation and Management” (PaRMa), co-located with the Int. Conference on Extending Database Technology (EDBT): Mar. 2006 (Munich, Germany), Mar. 2004 (Heraklion - Crete, Greece).
 - 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. **[11.7K chapter downloads on Springer Link]**
- [M02] MANOLOPOULOS Y, NANOPOULOS A, PAPAPOPOULOS AN, THEODORIDIS Y (2005) *R-trees: Theory and Applications*. Springer, Berlin. ISBN 1-852-33977-2.
- [M01] MANOLOPOULOS Y, THEODORIDIS Y, TSOTRAS VJ (1999) *Advanced Database Indexing*. Kluwer Academic Publishers, Boston. ISBN: 0-792-37716-8.

ARTICLES IN REFEREED JOURNALS

- [J45] TAMPAKIS P, DOULKERIDIS C, PELEKIS N, THEODORIDIS Y (2019) Distributed subtrajectory join on massive datasets. *ACM Transactions on Spatial Algorithms and Systems*, to appear.
- [J44] GEORGIU H, PELEKIS N, SIDERIDIS S, SCARLATTI D, THEODORIDIS Y (2019) Semantic-aware aircraft trajectory prediction using flight plans. *International Journal of Data Science & Analytics*, online first. DOI: 10.1007/s41060-019-00182-4.
- [J43] SANTIPANTAKIS GM, GLENIS A, PATROUMPAS K, VLACHOU A, DOULKERIDIS C, VOUROIS GA, PELEKIS N, THEODORIDIS Y (2018) Spartan: semantic integration of big spatio-temporal data from streaming and archival sources. *Future Generation Computer Systems*, online first. DOI: 10.1016/j.future.2018.07.007.
- [J42] MANSALIS S, NTOUTSI E, PELEKIS N, THEODORIDIS Y (2018) An evaluation of data stream clustering algorithms. *Statistical Analysis and Data Mining*, 11(4):167-187.
- [J41] FURTADO AS, ALVARES LOC, PELEKIS N, THEODORIDIS Y, BOGORNÝ V (2018) Unveiling Movement uncertainty for robust trajectory similarity analysis. *International Journal of Geographical Information Science*, 32(1):140-168.
- [J40] PELEKIS N, TAMPAKIS P, VODAS M, DOULKERIDIS C, THEODORIDIS Y (2017) On temporal-constrained sub-trajectory cluster analysis. *Data Mining and Knowledge Discovery*, 31(5): 1294-1330.
- [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. *International Journal of Data Science & Analytics*, 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 DK, PELEKIS N, KOTSIFAKOS EE, 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 VS, PONTIKAKIS ED, 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 REFEREED INT'L CONFERENCE PROCEEDINGS

- [C73] TAMPAKIS P, PELEKIS N, DOULKERIDIS C, THEODORIDIS Y (2019) Scalable distributed sub-trajectory clustering. *Proceedings of IEEE Big Data Conf.*, Los Angeles - CA, USA. IEEE CPS.
- [C72] PETROU P, NIKITOPOULOS P, TAMPAKIS P, GLENIS A, KOUTROUMANIS N, SANTIPANTAKIS GM, PATROUMPAS K, VLACHOU A, GEORGIU H, CHONDRODIMA E, DOULKERIDIS C, PELEKIS N, ANDRIENKO GL, PATTERSON F, FUCHS G, THEODORIDIS Y, VOUIROS GA (2019) ARGO: A big data framework for online trajectory prediction (demo paper). *Proceedings of SSTD Symp.*, Vienna, Austria. ACM Press.
- [C71] NIKITOPOULOS P, PARASKEVOPOULOS AI, DOULKERIDIS C, PELEKIS N, THEODORIDIS Y (2018) Hot spot analysis for big trajectory data. *Proceedings of IEEE Big Data Conf.*, Seattle - WA, USA. IEEE CPS.
- [C70] PATROUMPAS K, PELEKIS N, THEODORIDIS Y (2018) On-the-fly mobility event detection over aircraft trajectories. *Proceedings of ACM SIGSPATIAL GIS Conf.*, Seattle - WA, USA. ACM Press.
- [C69] VOUIROS GA, VLACHOU A, SANTIPANTAKIS G, DOULKERIDIS C, PELEKIS N, GEORGIU H, THEODORIDIS Y, PATROUMPAS K, ALEVIZOS E, ARTIKIS A, FUCHS G, MOCK M, ANDRIENKO G, ANDRIENKO N, CLARAMUNT C, RAY C, CAMOSSO E, JOUSSELME AL (2018) Increasing maritime situation awareness via trajectory detection, enrichment and recognition of events. *Proceedings of W2GIS Conf.*, A Coruña, Spain, Springer LNCS.
- [C68] TAMPAKIS P, PELEKIS N, ANDRIENKO N, ANDRIENKO G, FUCHS G, THEODORIDIS Y (2018) Time-aware sub-trajectory clustering in Hermes@PostgreSQL (demo paper). *Proceedings of IEEE ICDE Conf.*, Paris, France. IEEE CPS.
- [C67] GRYLLAKIS F, PELEKIS N, DOULKERIDIS C, SIDERIDIS S, THEODORIDIS Y (2018) Spatio-temporal-keyword pattern queries over semantic trajectories with Hermes@Neo4j (demo paper), *Proceedings of EDBT Conf.*, Vienna, Austria. OpenProceedings.org.

- [C66] VOUROIS GA, DOULKERIDIS C, SANTIPANTAKIS G, VLACHOU A, PELEKIS N, GEORGIIOU H, THEODORIDIS Y, PATROUMPAS K, ALEVIZOS E, ARTIKIS A, FUCHS G, MOCK M, ANDRIENKO G, ANDRIENKO N, RAY C, CLARAMUNT C, CAMOSSO E, JOUSSELME AL, SCARLATTI D, MANUEL J (2018) Big data analytics for time critical mobility forecasting: recent progress and research challenges. *Proceedings of EDBT Conf.*, Vienna, Austria. OpenProceedings.org.
- [C65] GRYLLAKIS F, PELEKIS N, DOULKERIDIS C, SIDERIDIS S, THEODORIDIS Y (2017) Searching for spatio-temporal-keyword patterns in semantic trajectories. *Proceedings of IDA Conf.*, London, UK. Springer LNCS.
- [C64] PELEKIS N, TAMPAKIS P, VODAS M, PANAGIOTAKIS C, THEODORIDIS Y (2017) In-DBMS sampling-based sub-trajectory clustering. *Proceedings of EDBT Conf.*, Venice, Italy. OpenProceedings.org.
- [C63] CLARAMUNT C, RAY C, SALMON L, CAMOSSO E, HADZAGIC M, JOUSSELME AL, ANDRIENKO G, ANDRIENKO N, THEODORIDIS Y, VOUROIS GA (2017) Maritime data integration and analysis: recent progress and research challenges [vision paper]. *Proceedings of EDBT Conf.*, Venice, Italy. OpenProceedings.org.
- [C62] 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 Conf.*, San Francisco - CA, USA. ACM Press.
- [C61] KONSTANTINIDIS A, CHATZIMILIOUDIS G, ZEINALIPOUR-YAZTI D, MPEIS P, PELEKIS N, THEODORIDIS Y (2016) Privacy-preserving indoor localization on smartphones [extended abstract]. *Proceedings of IEEE ICDE Conf.*, Helsinki, Finland. IEEE Press.
- [C60] 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 Conf.*, Bordeaux, France. OpenProceedings.org.
- [C59] COSTA CF, NASCIMENTO M, MACEDO J, THEODORIDIS Y, PELEKIS N, MACHADO J (2015) Optimal time-dependent sequenced route queries in road networks (short paper). *Proceedings of ACM SIGSPATIAL GIS Conf.*, Seattle - WA, USA. ACM Press.
- [C58] ALEVIZOS E, ARTIKIS A, PATROUMPAS K, VODAS M, THEODORIDIS Y, PELEKIS N (2015) How not to drown in a sea of information: An event recognition approach (short paper). *Proceedings of IEEE Big Data Conf.*, Santa Clara - CA, USA. IEEE Press.
- [C57] N. PELEKIS, S. SIDERIDIS, Y. THEODORIDIS: "Hermes^{sem}: a Semantic-aware Framework for the Management and Analysis of our LifeSteps", *Proceedings of IEEE DSAA Conf.*, Paris, France, October 2015. IEEE Press.
- [C56] K. PATROUMPAS, A. ARTIKIS, N. KATZOURIS, M. VODAS, Y. THEODORIDIS, N. PELEKIS: "Event Recognition for Maritime Surveillance", industrial paper, *Proceedings of EDBT Conf.*, Brussels, Belgium, March 2015. OpenProceedings.org.
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