

Curriculum Vitae
Nikos Pelekis
Lecturer, University of Piraeus

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1. PERSONAL DATA

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Place and Date of Birth:

Chalandri, Attiki, 24 August 1975

2. EDUCATION

- **(1999-2002)** PhD in Computation, Department of Computation, UMIST. Title of Doctoral dissertation: "STAU: A Spatio-Temporal Extension for the Oracle DBMS" (supervisor: B. Theodoulidis).
- **(1998-1999)** M.Sc. in Information Systems Engineering, Department of Computation, UMIST. Title of MSc thesis: "Fuzzy Miner: A fuzzy system for solving pattern classification problems", **with (unique) Distinction**.
- **(1994-1998)** B.Sc. in Computer Science, Department of Computer Science, University of Crete, Greece. Rank of acceptance: 13/70. Successfully fulfilled the requirements of the B.Sc in seven semesters (duration of studies is eight semesters). Graduated with a grade point average of 8.02 (fourth in my class). Title of Diploma thesis: "Extraction and Visualization of statistical elements from a database".

3. EXPERIENCE

- **2011–to date.** Faculty member (01/2011-), Department of Statistics and Insurance Science, University of Piraeus (field of expertise: Data Mining).
- **2004–10.** Researcher, Information Management Group, Department of Informatics, University of Piraeus - InfoLab (infolab.cs.unipi.gr).

- **2002–2003.** IT Consultant, Ministry of Foreign Affairs. In the last six months of my military service I was chosen by the Greek Ministries of Defence and Foreign Affairs to provide consultancy services on the organization of the IT requirements of the Hellenic Presidency EU 2003.
- **2001–2002.** Researcher. Centre for Research in Information Management (CRIM, <http://www.crim.co.umist.ac.uk>), UMIST.
- **1999–2001.** Software engineer, Neurosoft S.A. (<http://www.neurosoft.gr>).
- **1997–1998.** Under - graduate Research Assistant, Institute of Computer Science, Foundation for Research and Technology (FORTH <http://www.ics.forth.gr>).

4. RESEARCH

Leader of the research activities of Information Management Lab (InfoLab), [<http://infolab.cs.unipi.gr>]. The group currently consists of 2 faculty members, 2 postdoc researchers, 2 PhD candidates, and several post and under graduate students.

- **Research interests:**
 - **Knowledge Discovery in Data – KDD, Data Mining:** Classification, cluster analysis, pattern representation and management, machine learning.
 - **Database & DataWarehouse Management:** query processing and optimization, spatial / spatiotemporal database management.
 - **Geographical / Mobile Information Systems:** Location-based systems and services in mobile environments.
- **Research experience (since 2005):**
 - “AMINESS”, GSRT Programme «Συνεργασία 2011», 2013-15, [<http://aminess.eu>].
 - “SEEK – Semantic Enrichment of Trajectory Knowledge Discovery”, FP7/ PEOPLE Programme, [www.seek-project.eu].
 - “DATASIM – Data Science for Simulating the Era of Electric Vehicles”. FP7/ICT/FET-Open Programme, 2011-14, [www.datasim-fp7.eu].
 - “Knowledge Discovery from Moving Objects (MOVE)”, ESF/COST Programme, 2009-13. [www.move-cost.info].
 - “Mobility, Data Mining, and Privacy (MODAP)”. FP7/ICT/FET-Open Programme, 2009-12, [www.modap.org].
 - “Geographic Privacy-aware Knowledge Discovery and Delivery (GeoPKDD)”, [www.geopkdd.eu], FP6/IST/FET-Open Programme, 2005-09.
 - “Management of spatiotemporal and semantic data for the documentation of historical information (DIACHORON)”, GSRT Programme «Ανταγωνιστικότητα», 2006-08.
 - “Ontology-based construction and management of metadata for the intelligent search in document and imagery collections (MetA-On)”, Information Society Programme, 2006-08.

- “Spatio-temporal Data and Knowledge Management in Expert Virtual Environments” Pythagoras EPEAEK II Programme, 2004-05.

5. PROFESSIONAL ACTIVITIES

- **Invited Lectures in Conferences, MSc/PhD Programs, etc.**
 - Teaching lecture series (with Yannis Theodoridis) of 20-40 hours duration with credits (PhD/MSc level course), in the topic of "Mobility Data Management and Exploration": JRC Ispra (Apr. 2013), KAUST (Jun. 2012, Jun. 2011), Ghent Univ. (Feb. 2012), Univ. Trento (Nov. 2011), Aalborg Univ. (Sep. 2011), Univ. Milan (May. 2011). [<http://infolab.cs.unipi.gr>>> Teaching >> Tutorials]
 - Invited lecture «Mobility Data Management and Mining» in summer school on “Mobility, Data Mining, and Privacy”, Rhodes, Aug. 2010.
- **Member of Editorial Boards, Endowments, Steering Committees**
 - Invited member in the Editorial Board ECML PKDD 2014, Data Mining and Knowledge Discovery – DMKD
 - Member of the Editorial Board, Int. Journal of Knowledge-Based Organizations – IJKBO (2011-)
- **Reviewer in Scientific Journals:**
 - *Knowledge Discovery and Data Mining*: Knowledge and Information Systems, Int’l J. on Data Warehousing and Mining, ACM Trans. on Knowledge Discovery in Data, Data Mining and Knowledge Discovery, Journal of Intelligent Information Systems, Journal on Data Semantics.
 - *Database Management*: IEEE Trans. on Knowledge and Data Engineering, Data and Knowledge Engineering, The VLDB J.
 - *Geographical Information Science*: GeoInformatica, Int’l Journal of Geographical Information Science.
- **Program Committee Services:**
 - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases – ECML PKDD (2011, 2013).
 - ACM Symposium On Applied Computing, Data Mining track – ACM SAC DM (2011, 2012, 2013).
 - Int’l ACM Conference on Information and Knowledge Management – CIKM (2009, 2010, 2011).
 - IEEE Int’l Workshop on Semantic Aspects in Data Mining (SADM), (2011).
 - Int’l Workshop on Pattern Representation and Management – PaRMA.
 - 6th Hellenic Data Management Symposium – HDMS’07.
 - IADIS European Conference on Data Mining – DM (2008).

- International Conference on Telecommunications and Multimedia – TEMU (2010, 2012).
- Panhellenic Conference on Informatics – PCI (2012).
- 1st Mining Humanistic Data Workshop – MHDW (2012).
- Special Session on Statistics and Probabilities for Information Systems (SIS), in conjunction with PCI (2013).
- **Conference organizational activities**
 - Member of the organizational committee of the “Workshop on Moving Objects at Sea: Operational Frameworks and Systems”, Brest, France, 2013.
 - Member of the organizational committee of the “European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)”, Athens, 2011.
 - Stream co-chair “Data Mining and Knowledge Discovery” στο πλαίσιο του Ευρωπαϊκού Συνεδρίου Επιχειρησιακής Έρευνας (EURO), Bonn, Germany, 2009.
- **Citations**
 - Personal search: 339 citations
 - SCOPUS (scopus.com): 312 citations resulting in h-index = 11.
 - Web of Science (webofknowledge.com): 47 citations resulting in h-index = 4.
 - Microsoft Academic Research (academic.research.microsoft.com): 226 citations (probably, including self-citations) resulting in h-index = 9.
 - Google Scholar (scholar.google.gr): 1057 citations (probably, including self-citations) resulting in h-index = 17.

6. PUBLICATIONS

- *MONOGRAPHS*

[M1] **N. PELEKIS**, Y. THEODORIDIS: *Mobility Data Management and Exploration*. Springer, New York, 2014, in press. ISBN 978-1-4939-0391-7.

- *ARTICLES IN REFEREED JOURNALS*

[J1] C. PARENT, S. SPACCAPIETRA, C. RENSO, G. ANDRIENKO, N. ANDRIENKO, V. BOGORNY, M. L. DAMIANI, A. GKOUALAS-DIVANIS, J. MACEDO, **N. PELEKIS**, Y. THEODORIDIS, Z. YAN: “Semantic Trajectories Modeling and Analysis”, *ACM Computing Surveys*, 45(4), December 2013. ACM Press.

[J2] **N. PELEKIS**, Y. THEODORIDIS, D. JANSSENS: “On the management and analysis of our LifeSteps”, *SIGKDD Explorations*, 15(1):23-32, June 2013. ACM.

[J3] G. KELLARIS, **N. PELEKIS**, Y. THEODORIDIS: “Map-Matched Trajectory Compression”, *Journal of Systems and Software*, 86(6):1566-1579, June 2013. Elsevier.

- [J4] **N. PELEKIS**, E. FRENTZOS, N. GIATRAKOS, Y. THEODORIDIS: “HERMES: A Trajectory DB Engine for Mobility-Centric Applications”, *Int’l Journal of Knowledge-based Organizations (IJKBO)*, 4(1), 2014. IGI Global.
- [J5] **N. PELEKIS**, E. FRENTZOS, N. GIATRAKOS, Y. THEODORIDIS: “On the Support of Mobility in ORDBMS”, *Int’l Journal of Knowledge-based Organizations (IJKBO)*, 4(1), 2014. IGI Global.
- [J6] C. PANAGIOTAKIS, **N. PELEKIS**, I. KOPANAKIS, E. RAMASSO, Y. THEODORIDIS: “Segmentation and Sampling of Moving Object Trajectories based on Representativeness”, *IEEE Transactions on Knowledge and Data Engineering*, 24(7):1328-1343, July 2012. IEEE CS Press.
- [J7] **N. PELEKIS**, G. ANDRIENKO, N. ANDRIENKO, I. KOPANAKIS, G. MARKETOS, Y. THEODORIDIS: “Visually Exploring Movement Data via Similarity-based Analysis”, *Journal of Intelligent Information Systems (JIIS)*, 38(2), 2012. Springer.
- [J8] **N. PELEKIS**, I. KOPANAKIS, E.E. KOTSIFAKOS, E. FRENTZOS, Y. THEODORIDIS: “Clustering Uncertain Trajectories”, *Knowledge and Information Systems (KAIS)*, 28(1):117-147, 2011. Springer.
- [J9] RAFFAETÀ, L. LEONARDI, G. MARKETOS, G. ANDRIENKO, N. ANDRIENKO, E. FRENTZOS, N. GIATRAKOS, S. ORLANDO, **N. PELEKIS**, A. RONCATO, C. SILVESTRI: “Visual Mobility Analysis using T-Warehouse”. *International Journal of Data Warehousing & Mining*, 7(1), 2011.
- [J10] H. KARANIKAS, G. KOUNDOURAKIS, I. KOPANAKIS, T. MAVROUDAKIS, **N. PELEKIS**: “Discovering market trends in the biotechnology industry”, *Int. J. Business Intelligence and Data Mining (IJBIDM)*, Vol. 6, No. 2, 2011.
- [J11] D.K. IAKOVIDIS, **N. PELEKIS**, E.E. KOTSIFAKOS, I. KOPANAKIS, H. KARANIKAS, Y. THEODORIDIS: “A Pattern Similarity Scheme for Medical Image Retrieval”, *IEEE Transactions on Information Technology in Biomedicine*, 13(4):442-450, July 2009. IEEE CS Press.
- [J12] **N. PELEKIS**, D. K. IAKOVIDIS, E. KOTSIFAKOS AND I. KOPANAKIS: “Fuzzy Clustering of Intuitionistic Fuzzy Data”. *International Journal of Business Intelligence and Data Mining*, 3(1), 45-65, 2008.
- [J13] E. FRENTZOS, K. GRATSIAS, **N. PELEKIS**, Y. THEODORIDIS: “Algorithms for Nearest Neighbor Search on Moving Object Trajectories”, *GeoInformatica*, 11(2):159-193, June 2007. Springer.
- [J14] I. KOPANAKIS, S. KARAGIANNIS, **N. PELEKIS**, H. KARANIKAS: “3D Class-Preserving Projection Technique for the representation of N-Dimensional Classified Data and Association Rules”. *Journal of Universal Computer Science*, 2005.
- [J15] **N. PELEKIS**, B. THEODOULIDIS, I. KOPANAKIS, Y. THEODORIDIS, “Fuzzy Miner: Extracting Fuzzy Rules from Numerical Patterns”, *Int’l Journal of Data Warehousing and Mining*, 1(1):57-81, January-March 2005. Idea Group.
- Also appears in J. Wang (ed.) *Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications*, Information Science Reference, 2008.
- [J16] **N. PELEKIS**, B. THEODOULIDIS, I. KOPANAKIS, Y. THEODORIDIS, “Literature Review of Spatio-Temporal Database Models”, *Knowledge Engineering Review*, 19(3):235-274, September 2004. Cambridge University Press.

- *BOOK CHAPTERS*

- [B1] G. MARKETOS, M. L. DAMIANI, **N. PELEKIS**, Y. THEODORIDIS, Z. YAN. “Trajectory Collection and Reconstruction”, In C. Renso, S. Spaccapietra, and E. Zimányi (ed.), *Mobility Data: Modeling, Management, and Understanding*. Cambridge University Press, 2013, to appear.
- [B2] N. ANDRIENKO, G. ANDRIENKO, **N. PELEKIS**, AND S. SPACCAPIETRA. “Basic concepts of movement data”. In F. Giannotti and D. Pedreschi (ed.) *Mobility, Data Mining and Privacy, Geographic Knowledge Discovery*, Springer-Verlag. 2008.
- [B3] C. RENSO, S. PUNTONI, E. FRENTZOS, A. MAZZONI, B. MOELANS, **N. PELEKIS** AND F. PINI. “Wireless Network Data Sources: Tracking and Synthesizing Trajectories”. In F. Giannotti and D. Pedreschi (ed.) *Mobility, Data Mining and Privacy, Geographic Knowledge Discovery*, Springer-Verlag. 2008.
- [B4] J. MACEDO, C. VANGENOT, W. OTHMAN, **N. PELEKIS**, E. FRENTZOS, B. KUIJPERS, I. NTOUTSI, S. SPACCAPIETRA, AND Y. THEODORIDIS. “Trajectory data models”. In F. Giannotti and D. Pedreschi (ed.) *Mobility, Data Mining and Privacy, Geographic Knowledge Discovery*, Springer-Verlag. 2008.
- [B5] E. FRENTZOS, **N. PELEKIS**, I. NTOUTSI, AND Y. THEODORIDIS. “Trajectory Database Systems”. In F. Giannotti and D. Pedreschi (ed.) *Mobility, Data Mining and Privacy, Geographic Knowledge Discovery*, Springer-Verlag. 2008.
- [B6] **N. PELEKIS**, A. RAFFAETA, M.-L. DAMIANI, C. VANGENOT, G. MARKETOS, E. FRENTZOS, I. NTOUTSI AND Y. THEODORIDIS. “Towards Trajectory Data Warehouses”. In F. Giannotti and D. Pedreschi (ed.) *Mobility, Data Mining and Privacy, Geographic Knowledge Discovery*, Springer-Verlag. 2008.
- [B7] 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.

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

- [C1] 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’13, Hong Kong, November 2013. Springer. **Best paper award.**
- [C2] B. KROGH, O. ANDERSEN, E. LEWIS-KELHAM, **N. PELEKIS**, Y. THEODORIDIS, K. TORP: “Trajectory Based Traffic Analysis”, demo paper, *Proceedings of the 21st Int’l Conference on Advances in Geographic Information Systems*, ACM SIGSPATIAL GIS’13, Orlando, Florida, USA, November 2013. ACM Press.
- [C3] **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’13, Prague, Czech Republic, September 2013. Springer.
- [C4] E. FRENTZOS, **NIKOS PELEKIS**, NIKOS GIATRAKOS, YANNIS 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'13, Munich, Germany, August 2013. Springer.
- [C5] A. DOULAMIS, N. PELEKIS, Y. THEODORIDIS: "EasyTracker: An Android Application for Capturing Mobility Behavior", *Proceedings of the 16th Panhellenic Conference on Informatics*, special session on "2nd Mobile Device Software Development and Web Development", MDS@PCI'12, Piraeus, Greece, October 2012. IEEE CPS.
- [C6] 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'12, Berlin, Germany, March 2012. Springer.
- [C7] 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'11, Glasgow, Scotland - UK, October 2011. ACM Press.
- [C8] 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'11, Maine, USA, September 2011.
- [C9] Z. YAN, N. GIATRAKOS, V. KATSIKAROS, N. PELEKIS, Y. THEODORIDIS: "SeTraStream: Semantic-aware Trajectory Construction over Streaming Movement Data", *Proceedings of the 12th Int'l Symposium on Spatial and Temporal Databases*, SSTD'11, Minneapolis, MN, USA, August 2011. Springer.
- [C10] N. PELEKIS, I. KOPANAKIS, C. PANAGIOTAKIS, Y. THEODORIDIS: "Unsupervised Trajectory Sampling", *Proceedings of the European Conference on Machine Learning / Principles and Practice of Knowledge Discovery in Databases*, ECML/PKDD'10, Barcelona, Spain, September 2010. Springer.
- [C11] L. LEONARDI, G. MARKETOS, E. FRENTZOS, N. GIATRAKOS, S. ORLANDO, N. PELEKIS, A. RAFFAETÀ, A. RONCATO, C. SILVESTRI, Y. THEODORIDIS: "T-Warehouse: Visual OLAP Analysis on Trajectory Data", demo paper, *Proceedings of the 26th IEEE Int'l Conference on Data Engineering*, ICDE'10, Long Beach – CA, USA, March 2010. IEEE CS Press.
- [C12] N. PELEKIS, I. KOPANAKIS, E. KOTSIFAKOS, E. FRENTZOS, Y. THEODORIDIS: "Clustering Trajectories of Moving Objects in an Uncertain World", *Proceedings of the 9th IEEE Int'l Conference on Data Mining*, ICDM'09, Miami – FL, USA, December 2009. IEEE CS Press. **Best application paper award.**
- [C13] G. KELLARIS, N. PELEKIS, Y. THEODORIDIS: "Trajectory Compression under Network Constraints", *Proceedings of the 11th International Symposium on Spatial and Temporal Databases*, SSTD'09, Aalborg, Denmark, July 2009. Springer.
- [C14] C. PANAGIOTAKIS, N. PELEKIS, AND I. KOPANAKIS: "Trajectory Voting and Classification based on Spatiotemporal Similarity in Moving Object Databases", *Proceedings of the 8th International Symposium on Intelligent Data Analysis*, IDA'09, Lyon, France, 2009. Springer.
- [C15] V. TSIKOLIDAKI, N. PELEKIS, Y. THEODORIDIS: "GF-Miner: A Genetic Fuzzy Classifier for Numerical Data", *Proceedings of the 5th IFIP Conference on Artificial Intelligence Applications & Innovations*, AIAI'09, Thessaloniki, Greece, April 2009. Springer.

- [C16] R. ORTALE, E. RITACCO, **N. PELEKIS**, R. TRASARTI, G. COSTA, F. GIANNOTTI, G. MANCO, C. RENSO, Y. THEODORIDIS: “The DAEDALUS Framework: Progressive Querying and Mining of Movement Data”, poster paper, *Proceedings of the 16th ACM SIGSPATIAL Int’l Conference on Advances in Geographic Information Systems*, ACM-GIS’08, Irvine – CA, USA, November 2008. ACM Press.
- [C17] D. K. IAKOVIDIS, **N. PELEKIS**, E. KOTSIFAKOS, I. KOPANAKIS: “Intuitionistic Fuzzy Clustering with Applications in Computer Vision”, *Proceedings of the International Conference on Advanced Concepts for Intelligent Vision Systems*, ACIVS’08, LNCS 5259, pp. 764–774, Juan-les-Pins, France, 2008.
- [C18] R. ORTALE, E. RITACCO, **N. PELEKIS**, R. TRASARTI, G. COSTA, F. GIANNOTTI, G. MANCO, C. RENSO, Y. THEODORIDIS: “DAEDALUS: A knowledge discovery analysis framework for movement data”. *Proceedings of the 16th Italian Symposium on Advanced Database Systems*, SEBD’08, pp. 191-198, Mondello, Italy, 2008.
- [C19] E. FRENTZOS, **N. PELEKIS**, Y. THEODORIDIS: “Cost Models and Efficient Query Processing over Existentially Uncertain Spatial Data”, *Proceedings of the 12th Pan-Hellenic Conference on Informatics*, PCI’08, Samos, Greece, August 2008. IEEE CS Press.
- [C20] **N. PELEKIS**, E. FRENTZOS, N. GIATRAKOS, Y. THEODORIDIS: “HERMES: Aggregative LBS via a Trajectory DB Engine”, demo paper, *Proceedings of ACM SIGMOD Int’l Conference on Management of Data*, SIGMOD’08, Vancouver, BC, Canada, June 2008. ACM Press.
- [C21] G. MARKETOS, E. FRENTZOS, I. NTOUTSI, **N. PELEKIS**, A. RAFFAETA, Y. THEODORIDIS: “Building Real World Trajectory Warehouses”, *Proceedings of the 7th ACM Int’l Workshop on Data Engineering for Wireless and Mobile Access*, MobiDE’08, Vancouver, BC, Canada, June 2008. ACM Press.
- [C22] **N. PELEKIS**, I. KOPANAKIS, G. MARKETOS, I. NTOUTSI, G.L. ANDRIENKO, Y. THEODORIDIS: “Similarity Search in Trajectory Databases”, *Proceedings of the 14th Int’l Symposium on Temporal Representation and Reasoning*, TIME’07, Alicante, Spain, June 2007. IEEE CS Press.
- [C23] **N. PELEKIS**, S. VOSINAKIS, T. PANAYIOTOPOULOS, Y. THEODORIDIS: “Towards a Virtual Agent Control Architecture Using a Spatiotemporal Data Management Framework”, *Proceedings of the 4th International INTUITION Conference*, pp. 153-162, Athens, 2007.
- [C24] **N. PELEKIS**, I. KOPANAKIS, I. NTOUTSI, G. MARKETOS, Y. THEODORIDIS: “Mining Trajectory Databases via a Set of Distance Operators”, *Proceedings of ICDE Workshop on Spatio-Temporal Data Mining*, STDM’07, Istanbul, Turkey, April 2007. IEEE CS Press.
- [C25] S. VOSINAKIS, **N. PELEKIS**, Y. THEODORIDIS, AND T. PANAYIOTOPOULOS: “Handling Spatial Vagueness in Virtual Agent Control”. *Proceedings of the 2nd International Conference on Computer Graphics Theory and Applications*, GRAPP’07, Barcelona, Spain, March 2007. Volume GM/R. INSTICC.
- [C26] D. K. IAKOVIDIS, **N. PELEKIS**, H. KARANIKAS, E. KOTSIFAKOS, I. KOPANAKIS, Y. THEODORIDIS: “A Pattern Similarity Scheme for Medical Image Retrieval”, *Proceedings of the Int’l Special Topic Conference on Information Technology in Biomedicine*, ITAB’06, Ioannina, Greece, October 2006. IEEE Computer Society Press.
- [C27] H. KARANIKAS, **N. PELEKIS**, D. K. IAKOVIDIS, I. KOPANAKIS, T. MAVROUDAKIS, Y. THEODORIDIS: “MetaOn - Ontology Driven Metadata Construction and Management for Intelligent Search in Text and Image Collections”, *Proceedings of Int’l Workshop on Flexible Database and Information System Technology*, FlexDBIST’06, Krakow, Poland, September 2006. IEEE Computer Society Press.

- [C28] **N. PELEKIS**, Y. THEODORIDIS: “Boosting Location-Based Services with a Moving Object Database Engine”, *Proceedings of the 5th Int’l ACM Workshop on Data Engineering for Wireless and Mobile Access*, MobiDE’06, Chicago, IL, USA, June 2006. ACM Press.
- [C29] **N. PELEKIS**, Y. THEODORIDIS, S. VOSINAKIS, T. PANAYIOTOPOULOS: “Hermes – A Framework for Location-Based Data Management”, demo paper, *Proceedings of the 10th Int’l Conference on Extending Database Technology*, EDBT’06, Munich, Germany, March 2006. Springer.
- [C30] E. FRENTZOS, K. GRATSIAS, **N. PELEKIS**, Y. THEODORIDIS: “Nearest Neighbor Search on Moving Object Trajectories”, *Proceedings of the 9th Int’l Symposium on Spatial and Temporal Databases*, SSTD’05, Angra dos Reis, Brazil, August 2005. Springer.
- [C31] **N. PELEKIS**, B. THEODOULIDIS AND I. KOPANAKIS: “Fuzzy Miner: A Fuzzy System for Solving Pattern Classification Problems”, *Proceedings of the 1st Int’l EDBT Workshop on Pattern Representation and Management*, PaRMA’04, Heraklion-Crete, Greece, March, 2004.

- *ABSTRACTS, GREEK CONFERENCES*

- [N1] D. KOPANAKI, **N. PELEKIS**, A. GKOUALALAS-DIVANIS, M. VODAS AND Y. THEODORIDIS: “A Framework for Mobility Pattern Mining and Privacy-Aware Querying of Trajectory Data”, *Proceedings of the 11th Hellenic Data Management Symposium*, HDMS’12, Chania, Greece, 2012.
- [N2] **N. PELEKIS**, I. KOPANAKIS, C. PANAGIOTAKIS AND Y. THEODORIDIS: “Unsupervised Trajectory Sampling”, *Proceedings of the 10th Hellenic Data Management Symposium* HDMS’11, Athens, Greece, 2011.
- [N3] **N. PELEKIS**, I. KOPANAKIS, E. KOTSIFAKOS, E. FRENTZOS AND Y. THEODORIDIS: “Clustering Trajectories of Moving Objects in an Uncertain World”, *Proceedings of the 9th Hellenic Data Management Symposium*, HDMS’10, Ayia Napa, Cyprus, 2010.
- [N4] G. MARKETOS, E. FRENTZOS, N. GIATRAKOS, I. NTOUTSI, **N. PELEKIS**, A. RAFFAETA AND Y. THEODORIDIS: “A Framework for Trajectory Data Warehousing”, *Proceedings of the 7th Hellenic Data Management Symposium*, HDMS’08, Heraklion, Crete, Greece, 2008.
- [N5] E. FANARA, G. MARKETOS, **N. PELEKIS** AND Y. THEODORIDIS: “Analyzing Polls and News Headlines Using Business Intelligence Techniques”, *Proceedings of the 20th National Conference of the Hellenic Company of Operational Research*, EEEE’08, Spetses, Greece, 2008.
- [N6] E. FRENTZOS, **N. PELEKIS**, N. GIATRAKOS AND Y. THEODORIDIS: “Identifying Unknown Border Lines from Historical Spatiotemporal Data: The DIACHORON Approach”, *Proceedings of the International Conference on Telecommunications & Multimedia*, TEMU’08, Ierapetra, Crete, Greece, 2008.
- [N7] **N. PELEKIS**, D. K. IAKOVIDIS, E. KOTSIFAKOS, H. KARANIKAS AND I. KOPANAKIS: “Intuitionistic Fuzzy Clustering to Information Retrieval from Cultural Databases”, *Proceedings of the 22nd International Conference on Operational Research*, Prague, Czech Republic, 2007.
- [N8] D.K. IAKOVIDIS, E. KOTSIFAKOS, **N. PELEKIS**, H. KARANIKAS, I. KOPANAKIS, T. MAVROUDAKIS, Y. THEODORIDIS: “Pattern-Based Retrieval of Cultural Heritage Images”, *Proceedings of the 12th Panhellenic Conference in Informatics*, Patra, May 2007.
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