

Panagiotis Bouros (April 15, 2013)

CONTACT INFORMATION Institut für Informatik
Humboldt-Universität zu Berlin
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EDUCATION **National Technical University of Athens**, Greece

PhD, School of Electrical and Computer Engineering (2005-2011)

- Title: Evaluating Queries over Route Collections
- Supervisor: Prof. Yannis Vassiliou

Diploma, School of Electrical and Computer Engineering (1998-2003)

- Diploma thesis: Query Language for Hierarchical Structures
- Supervisor: Prof. Timos Sellis

RESEARCH INTERESTS

- Management and mining of complex data types including spatial and textual data
- Query evaluation on spatio-temporal databases
- Web Personalization

RESEARCH EXPERIENCE **Humboldt-Universität zu Berlin**, Berlin, Germany

PostDoctoral Fellow, Department of Computer Science (2013-today)

- Supervisor: Prof. Ulf Leser

The University of Hong Kong, Hong Kong SAR, China

PostDoctoral Fellow, Department of Computer Science (2011-2013)

- Supervisor: Prof. Nikos Mamoulis

National and Kapodistrian University of Athens, Greece

Research Associate, Department of Informatics and Telecommunications (2005)

- Supervisor: Prof. Aphrodite Tsalgatidou

ACADEMIC PROJECTS **Humboldt-Universität zu Berlin**, Berlin, Germany

METRIK, Model-Based Development of Technologies for Self-Organizing Decentralized Information Systems in Disaster Management. (2013-today)

- German Research Foundation (DFG)

The University of Hong Kong, Hong Kong SAR, China

Spatio-Textual Joins (2011-2013)

- HKU 714212E, Research Grants Council (RGC) of Hong Kong

National Technical University of Athens, Greece

Advance Semantic Web Technologies to Support Ontology-based Enterprise Content Management (2006)

- Greece-China, Joint Research and Technology Program, EPAN, GSRT

National and Kapodistrian University of Athens, Greece

SODIUM (2005)

- Studying Semantic Web Services initiatives: OWL-S, WSMO, METEOR-S
- Web Services development considering the OWL-S Framework
- Development in Java of an OWL-S handler and QoS handler based on the WS-QoS framework

INTEROP NoE (2005)

- Creation of partners knowledge map using Protégé

PUBLICATIONS

1. Panagiotis Bouros, Shen Ge and Nikos Mamoulis, **Spatio-Textual Similarity Joins**, in Proceedings of the VLDB Endowment (PVLDB), Vol 6, No 1, November 2012.
2. Panagiotis Bouros, Dimitris Sacharidis, Theodore Dalamagas, Spiros Skiadopoulos and Timos Sellis, **Evaluating Path Queries over Frequently Updated Route Collections**, IEEE Transactions on Knowledge and Data Engineering (TKDE), Vol. 24, No 7, July 2012
3. Panagiotis Bouros, Dimitris Sacharidis, Theodore Dalamagas and Timos Sellis, **Dynamic Pickup and Delivery with Transfers**, in Proceedings of the 12th International Symposium on Spatial and Temporal Databases (SSTD'11), Minneapolis, MN, USA, August 24-26, 2011.
4. Manolis Terrovitis, Panagiotis Bouros, Panos Vassiliadis, Timos Sellis and Nikos Mamoulis, **Efficient Answering of Set Containment Queries for Skewed Item Distributions**, in Proceedings of the 14th International Conference on Extending Database Technology (EDBT'11), Uppsala, Sweden, March 21-25, 2011.
5. Panagiotis Bouros and Yiannis Vassiliou, **Evaluating Path Queries over Route Collections**, in Proceedings of the PhD Workshop in conjunction with the 26th IEEE International Conference on Data Engineering (ICDE'10), Long Beach, California, USA, March 5, 2010.
6. Panagiotis Bouros, Spiros Skiadopoulos, Theodore Dalamagas, Dimitris Sacharidis and Timos Sellis, **Evaluating reachability queries over path collections**, in Proceedings of the 21st International Conference on Scientific and Statistical Database Management (SSDBM'09), New Orleans, Louisiana, USA, June 2-4, 2009.

7. Panagiotis Bouros, Theodore Dalamagas, Spiros Skiadopoulos and Timos Sellis, **Evaluating “Find a Path” Reachability Queries**, in Proceedings of the Workshop on Spatial and Temporal Reasoning in conjunction with the 18th European Conference on Artificial Intelligence (ECAI’08), Patras, Greece, July 22, 2008.
8. Dimitris Sacharidis, Panagiotis Bouros and Timos Sellis, **Caching Dynamic Skyline Queries**, in Proceedings of the 20th International Conference on Scientific and Statistical Database Management (SSDBM’08), Hong Kong, China, July 9-11, 2008.
9. Theodore Dalamagas, Panagiotis Bouros, Theodore Galanis, Magdalini Eirinaki and Timos Sellis, **Mining User Navigation Patterns for Personalizing Topic Directories**, in Proceedings of the 9th ACM International Workshop on Web Information and Data Management (WIDM’07) in conjunction with the 16th ACM International Conference on Information and Knowledge Management (CIKM’07), Lisbon, Portugal, November 9, 2007.
10. Panagiotis Bouros, Aggeliki Fotopoulou and Nicholas Glaros, **An interactive environment for creating and validating syntactic rules**, in Proceedings of the 5th International Conference on Recent Advances in Natural Language Processing (RANLP’05), Borovets, Bulgaria, September 21-23, 2005.
11. Aggeliki Koukoutsaki, Theodore Dalamagas, Timos Sellis and Panagiotis Bouros, **PatMan: A Visual Database System to Manipulate Path Patterns and Data in Hierarchical Catalogs**, in Proceedings of the International Workshop of the EU Network of Excellence DELOS on Audio-Visual Content and Information Visualization in Digital Libraries (AVIVDiLib’05), Cortona, Italy, May 4-6, 2005.
12. Panagiotis Bouros, Theodore Dalamagas, Timos Sellis and Manolis Terrovitis, **PatManQL: A language to manipulate patterns and data in hierarchical catalogs**, in Proceedings of the 1st International Workshop on Pattern Representation and Management (PaRMa’04) in conjunction with the 9th International Conference on Extending Database Technology (EDBT’04), Heraklion, Crete, Greece, March 18, 2004.

PRESENTATIONS

1. Panagiotis Bouros, Dimitris Sacharidis, Theodore Dalamagas and Timos Sellis, **Dynamic Pickup and Delivery with Transfers**, presented in the 10th Hellenic Data Management Symposium, (HDMS’11), Athens, Greece, June 17-18, 2011.
2. Manolis Terrovitis, Panagiotis Bouros, Panos Vassiliadis, Timos Sellis and Nikos Mamoulis, **Efficient Answering of Set Containment Queries for Skewed Item Distributions**, presented in the 10th Hellenic Data Management Symposium, (HDMS’11), Athens, Greece, June 17-18, 2011.
3. Panagiotis Bouros, Spiros Skiadopoulos, Theodore Dalamagas, Dimitris Sacharidis and Timos Sellis, **Evaluating reachability queries over path collections**, in 8th Hellenic Data Management Symposium (HDMS’09), Athens, Greece, August, 2009.
4. Dimitris Sacharidis, Panagiotis Bouros and Timos Sellis, **Caching Dynamic Skyline Queries**, presented in the 7th Hellenic Data Management Symposium (HDMS’08), Heraklion, Greece, July 2008.

REVIEWING
EXPERIENCE

Reviewer

- VLDBJ, TKDE, DKE

Member of Programme Committees

- CIKM Posters (2011)

External Reviewer

- SIGMOD, ICDE, SIGKDD, SSTD, DASFAA (2013)
- DASFAA (2012)
- SIGMOD, CIKM, SSTD, TPD (2011)
- ICDE, SETN, DEXA, EGOVIS (2010)
- VLDB, EDBT, CIKM, BPM (2009)
- Journal of IR (2008)
- PCI, PersDL (2007)
- PSI, DaWak, HDMS (2006)
- DEXA, EC-Web, I3E, ICWS (2005)

ACADEMIC
EXPERIENCE

National Technical University of Athens, Greece

Teaching Assistant

- Database Systems (Fall 2009)
- Database Systems (Fall 2008)
- Database Systems (Fall 2007)
- Database Systems (Fall 2006)
- Introduction to Programming - PASCAL laboratories (Fall 2005)

Diploma Thesis co-Supervisor

- Dora Kontogianni, **GRAPHIT-DB: Graph Data Management System (II)** (2009)
- Vassilis Giannopoulos, **P-Miner+: Portal Catalogs Administration Supporting Usage Data Mining Processes** (2009)
- Ioannis Liagouris & Trifonas Farmakakis, **DataBase supported Reasoning System (DBRS)** (2008)
- Lemonia Boula, **GRAPHIT-DB: Graph Data Management System (I)** (2007)
- Theodore Galanis, **P-Miner: Portal Catalogs Administration Supporting Usage Data Mining Processes** (2006)

National and Kapodistrian University of Athens, Greece

Teaching Assistant

- Software Engineering (Fall 2005)
- System Analysis (Spring 2005)

SOFTWARE
ENGINEERING
EXPERIENCE

Biovista Knowledge Management for the Life Sciences, Greece

Software and database engineer (2006)

- Performance enhancement of BEA search engine core
- MySQL server tuning, database and query analysis and optimization
- Implementation of an Inverted File based on Berkeley DB
(MySQL, Berkeley DB, C/C++)

Institute for Language and Speech Processing (ILSP), Greece

Software engineer - Department of Electronic Lexicography (2001-2005)

- Symfonia, advanced spelling checker
- Rules for syntactic analysis of human text
- Environment for creating and validating syntactic rules of Symfonia
(C/C++, Visual Basic, SQL, Programming on Word, DLL creation, DAO, ODBC, MS Access, PrimeBase)

iLang Language Innovation, Greece

Software engineer (2004-2005)

- Development of an electronic edition for a thesaurus
(Visual Basic, XML, XSLT, MS Access)

TECHNICAL SKILLS

Programming: C/C++, Java, Perl, Python

Operating Systems: Linux, Mac OS, iOS, Windows

Database Systems: MySQL, PostgreSQL, Berkeley DB, MS SQL Server, Oracle, PrimeBase

SPOKEN
LANGUAGES

- Greek (Native speaker)
- English (Cambridge Proficiency)
- French (DELF)

DISTINCTIONS

Greek State Scholarships Foundation (IKY) (2007-2010)

Field: Artificial Intelligence and Applications

Institute for Language and Speech Processing (ILSP) Scholarship (2001-2005)

Department of Electronic Lexicography

REFERENCES

Prof. Timos Sellis

Director of the Institute for the Management of Information Systems, Research Center “Athena”, Greece

School of Electrical and Computer Engineering, National Technical University of Athens, Greece

E-mail: timos@imis.athena-innovation.gr

Prof. Nikos Mamoulis

Department of Computer Science, The University of Hong Kong, Hong Kong SAR, China

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