Ekaterini Ioannou

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Research Interests

- Management of large datasets with heterogeneities and correlations
- Analytics for retrieving statistical information without the need to perform complete data integration
- Time-travel queries over graphs and hypergraphs with volatile data (i.e., retrieving information about current as well as previous data snapshots)
- Mechanisms for the incremental construction of indexing structures when new data arrive or existing data are updated, and possible contradicts previous information

Education

Apr. 2011	**Ph.D. in Computer Science (Dr. rer. nat.)** Leibniz Universität Hannover, Germany Thesis title: Entity Linkage for Heterogeneous, Uncertain, and Volatile Data Supervisor: Prof. Wolfgang Nejdl
Sept. 2007	**M.Sc. in Computer Science – M.Sc. Program of Max Planck** **Institute for Computer Science (International Max Planck Research School)** Universität des Saarlandes, Germany Thesis title: *MCCXQ*: A calculus for XQuery based on monoid comprehensions Thesis supervisor: Prof. Christoph Koch
June 2004	**M.Sc. in Advanced Information Technologies** Department of Computer Science, University of Cyprus Thesis title: Automatic image completion Thesis supervisor: Prof. Yiorgos Chrysanthou
June 2002	**B.Sc. in Computer Science** Department of Computer Science, University of Cyprus Thesis title: A course management system Thesis Supervisor: Prof. George Samaras

Awards

Dec. 2014	"Leibniz Research Alumnus". The award provides a mobility grant for covering research visits of myself, or my students, to any of the Leibniz Research Centers in Germany.
Jan. 2011	ERCIM "Alain Bensoussan" Fellowship Programme (declined due to earlier acceptance of another job offer).
Mar. 2009	Best Submission Award for the PhD Proposal at Joint EDBT/ICDT Ph.D. Workshop 2009, collocated with EDBT/ICDT 2009, Saint-Petersburg, Russia.

Funding Acquisition

QualiMaster (FP7 STREP project, Jan. 2014 – Dec. 2017)
Total EU contribution is €2,908,000.00, with €692,820.00 for the Technical Univ. of Crete.
One of the main contributors during the consortium formation and the preparation and submission of the proposal.
Efficiently Querying Volatile Graphs and Hypergraphs
A two years project, funded with €40,000 from the Open University of Cyprus (Aug. 2018).
Individual project (accepted after evaluation from external reviewers).

Experience

Oct. 2019 – present	**Assistant Professor**
	Department of Management, Tilburg University
Sept. 2018 – Sept. 2019	**Assistant Professor**
	Department of Mathematics and Computer Science, TU/e
	Member of the Data Mining group.
Feb. 2012 – Mar. 2017	**Independent Expert**
	European Commission

<table>
<tr><td>Mar. 2017</td><td>▪ Evaluation of FET proposals.</td></tr>
<tr><td>Jan. 2014, 2015, 2016</td><td>▪ Technical reviewer for FP7 STREP BiobankCloud.</td></tr>
<tr><td>Nov. 2012</td><td>▪ Evaluation of FET Young Researchers proposals.</td></tr>
<tr><td>Feb.-Mar. 2012</td><td>▪ Evaluation of proposals received in response to calls made under the FP7 activity area of information society and media (objective: intelligent information integration).</td></tr>
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Sept. 2016 – Aug. 2018	**Lecturer (tenure-track)**
	Open University of Cyprus, Faculty of Pure and Applied Sciences, Cyprus
	Administrative responsibilities:
	▪ Academic Coordinator for the M.Sc. program of "Information and Communications Systems"
	▪ Participation in the Committee on Educational Material, Library, and Information, and the Committee on Graduate Studies
Oct. 2017 – Nov. 2017	**External Lecturer**
	EPFL, Switzerland
	Responsible for the database lectures of a B.Sc. course from the School of Architecture, Civil and Environmental Engineering.
Apr. 2011 – Aug. 2016	**Postdoctoral Researcher**
	SoftNet Lab., Department of Electronic and Computer Engineering (HMMY), Technical University of Crete, Greece
	Performing research on various topics, such as management of uncertain data resulting from deduplication techniques, incorporating information extraction tasks within databases, and processing financial data streams. Also, participating in national and EU projects and programmes, i.e., QualiMaster

	(FP7-ICT-STREP project, 2014-2017), EIPAS (funded by THALIS, 2012-2015), LEADS (FP7-ICT-STREP project, 2012-2015).
Sept. 2012– June 2013	**Adjunct Lecturer** **Faculty of Pure and Applied Sciences, Open University of Cyprus** Lecturer in the postgraduate program of Information and Communications Systems (distance education). Supervision of M.Sc. dissertations.
Jan. 2006 – Mar. 2011	**Research Associate** **L3S Research Center, Hannover, Germany** Working on research topics related to heterogeneous information integration and management. Also, designing algorithms and developing solutions for EU Projects, i.e., NEPOMUK, OKKAM, and ARCOMEM.
July 2003 – Sept. 2004	**Developer** **Inteliscape, Nicosia, Cyprus** Designing and developing software for companies, including Web content management systems, such as e-banking and data management for distribution agencies.
Jan. 2003 – June 2003	**Developer (part-time, during my studies)** **Department of Computer Science, Univ. of Cyprus, Nicosia, Cyprus** Developing a Web portal for professors and students in order to efficiently manage information related to courses.

Teaching Experience

Planned for 2020-2021	**Quartile 4:** Develop and teach new course "Interactive Data Transformation" **Quartile 3:** Co-Lecturer for "Business Intelligence & Data Management"
2019-2020, Quartile 3	**Co-Lecturer for "Business Intelligence & Data Management"** Course with ~150 students, part of the Information Management MSc study program of the Tilburg University.
2018-2019, Quartile 3	**Co-Lecturer for "JBI030 – Data Mining"** Undergraduate course with 202 students. Part of the Data Science Bachelor, a joint program between Tilburg University and Eindhoven University of Technology. **Co-Lecturer for "2IMM15 – Web information retrieval and data mining"** Graduate course with 139 students.
2018-2019, Quartile 2	**Lecturer for "JBG040 – Data Challenge 1"** Course is part of the Data Science Bachelor, a joint program between Tilburg University and Eindhoven University of Technology. **Instructions for "2ID50 – Data modelling and databases"** Bachelor course. Responsible for a group of 80 students.
2017-2018,	**External Lecturer for "ENV-342 – Geographic information systems " (undergraduate course), EPFL, Switzerland** Responsible for four lectures related to information management, and corresponding exercise hours of the course, i.e., basic concepts, relational databases, general operations using SQL, and design using UML class diagrams.

2017-2018 & 2017-2017	**"Research Methods" (postgraduate course), Open University of Cyprus** Lecturer and Coordinator (SS 2017 students were separated into two classes and in SS 2018 students were separated into three classes).
2017-2018 & 2017-2017	**"Web Technologies" (postgraduate course), Open University of Cyprus** Lecturer for the course.
2012-2013	**"Advanced Web Technologies and Programming" (postgraduate course), Open University of Cyprus** Lecturer for the course. Responsible for the course design, preparation of related material, and grading of assignments and exams.
2008	**Artificial Intelligence II, Leibniz Universität Hannover** TA at the course of Prof. Wolfgang Nejdl.
2008	**Software Project, Leibniz Universität Hannover** Tutor of a team of six students for developing a system (benchmark infrastructure evaluating entity linkage algorithms).
2007	**Artificial Intelligence II, Leibniz Universität Hannover** TA at the course of Prof. Wolfgang Nejdl.

Supervision of Dissertations

Ongoing PDEng (Professional Doctorate in Engineering):
- Arne Laponin, "Extracting information from unstructured service logbook texts" (in collaboration with company *Océ Technologies B.V.).*

Ongoing supervision of dissertations:
- Supervision of three master students.

Completed M.Sc. Dissertations:
- Ronald van Asseldonk, "*Designing a Method for Extracting Invoice Files using Automation Technologies*", Uvt, Aug. 2020.
- Sem P. L. Nijssen, "*An approach for organizations to embed security within a DevOps environment in order to effectively manage information risks*" (in collaboration with company *CGI*), Uvt, June 2020.
- Linde M. A. Koolen, "*Using IoT Field Data to Add Value to the Business*" (in collaboration with company *Signify Holding B.V.*), Uvt, June 2020.
- Tim W. A. van Lier, "*Process mining in practice: learning from experts*", Uvt, June 2020.
- Niek van Son, "*Designing an integration system for financial data in Accounting information systems*", TU/e, Aug. 2019.
- Rik Coenders, "*Search term clustering*" (in collaboration with company *ADchieve*), TU/e, Aug. 2019.
- Upasana Biswas, "*Normalization of Extracted Named-Entities in Text Mining*" (in collaboration with *ZyLAB*), TU/e, Aug. 2019.
- Marios Nikolaou, "*Data for evaluating entity-related methodologies*", OUC, June 2017.
- Evangelia Routzouni, "*Detecting and monitoring entity evolution*", OUC, June 2013.

Second examiner / reader of M.Sc. and B.Sc. dissertations:
- Several dissertations in the last three years.

Participation in EU-funded Projects

Oct. 2013 – Dec. 2017	**KEYSTONE - Semantic Keyword-based Search on Structured Data Sources,** **http://www.keystone-cost.eu/**

Role: Working Group Member

This is a COST Action aiming at establishing collaboration among practitioners and specialists for enabling research activity and technology transfer in the area of keyword-based search over structured data sources.

Jan. 2014 – Dec. 2016	**QualiMaster - A configurable real-time data processing infrastructure mastering autonomous re-active quality adaptation** **http://qualimaster.eu/** (FP7-ICT-2013-11, Contract No. 619525)

Role: Work-Package Leader

QualiMaster focused on developing novel approaches for autonomously dealing with load changes in large-scale data stream processing, while opportunistically exploiting the available resources for increasing the analysis of the data whenever possible.

Oct. 2012 – Sep. 2015	**LEADS - Large-Scale Elastic Architecture for Data-as-a-Service** **http://www.leads-project.eu/** -- (FP7-ICT-2011-8, Contract No. 318809)

Role: Researcher

This project focused on developing an innovative infrastructure based on an elastic collection of geographically distributed micro-clouds.

Apr. 2011 – Dec. 2013	**HeisenData - Towards a Next-Generation Uncertain Data Management System,** **http://heisendata.softnet.tuc.gr/** -- (FP7-PEOPLE Marie-Curie, Contract No. 249217)

Role: Researcher

In contrast to existing approaches for managing probabilistic data that rely on simple uncertainty models, HeisenData investigated the challenges of providing basic database functionalities, such as query processing/optimization, building on statistical models.

Jan. 2011 – Mar. 2011	**ARCOMEM - From Collect-All Archives to Community Memories,** **http://www.arcomem.eu/** -- (FP7-ICT-2009-6, Contract No. 270239)

Role: Researcher

The typical mechanism for Web archiving is to collect every available data. The ARCOMEM project, focused on developing new techniques for selecting and preserving data, which are based on the needs of users as well as information from social systems.

Jan. 2008 – June 2010	**OKKAM - Searching the Web of Entities,** **http://fp7.okkam.org/** -- (FP7-ICT-2007-1, Contract No. 215032)

Role: Work-Package Leader

The goal of the project was to provide an infrastructure and tools to foster the re-use of entity identifiers, for enabling entity centric integration. My role in the project was to lead a work-package, focused on designing and developing generic algorithms for matching and ranking entities. This work-package had 87 months shared among 6 partners.

Jan. 2006 – May 2010	**NEPOMUK - The Social Semantic Desktop,** **http://nepomuk.semanticdesktop.org/** -- (FP6-IST-2004-2, Contract No. 027705)

Role: Researcher

NEPOMUK studied methods for extending the personal computer into a collaborative environment, by enriching and interconnecting data from different desktop applications using semantic metadata stored as RDF.

Professional Activities

Reviewer for EU Projects

Jan. 2016: 3rd year reviewer for FP7 STREP project BiobankCloud

Jan. 2015: 2nd year technical and innovation reviewer for FP7 STREP project BiobankCloud

Jan. 2014: 1st year technical reviewer for FP7 STREP project BiobankCloud

Evaluator of EU Proposals

H2020-FETOPEN-2016-2017

FP7-ICT-2011.9.3 – FET Young Explorers

FP7-ICT-2011.Call-8-4.4 – Intelligent Information Management

Evaluator of National Grant Proposals

Reviewer of proposals submitted for funding at the Ministry of Labor and Social Insurance of the Republic of Cyprus 2017, 2016

Conference Organization

Hellenic Data Management Symposium (HDMS) 2018, student poster chair

Big Data processing - reloaded, workshop co-located with EDBT/ICDT 2016

Hellenic Data Management Symposium (HDMS) 2012

Program Committee

International Conference on Information and Knowledge Management (CIKM) 2018, short papers track.

European Conference on Advances in Databases and Information Systems (ADBIS) 2018, 2017

International Workshop on Semantic Big Data (SBD), affiliated with SIGMOD 2017 and 2016

International KEYSTONE Conference (IKC) 2016

International Conference on Information and Knowledge Management (CIKM),
    at the Knowledge Management track 2016, 2015 and 2014

International Workshop on Open Data (WOD) 2013

Hellenic Data Management Symposium (HDMS) 2012

Social Web and Web Science Track at the Extended Semantic Web Conference (ESWC) 2011

Reviewer for Journals

Computer Journal (Oxford University Press): 2017

Knowledge and Information Systems (KAIS): regular reviewer since 2012

Transactions on Knowledge and Data Engineering (TKDE): regular reviewer since 2013

Journal of Semantic Web: 2015 and 2014

Journal of Computer Science and Technology: 2014 and 2013

External Reviewer

International Conference on Data Engineering (ICDE) 2015

International Conference on Extending Database Technology (EDBT) 2015 and 2013

International Conference on Management of Data (SIGMOD) 2013

International Conference on Extending Database Technology (EDBT) 2012

Extended Semantic Web Conference (ESWC) 2010

Asian Semantic Web Conference (ASWC) 2009

International World Wide Web Conference (WWW) 2008 - Posters Track

Asian Semantic Web Conference (ASWC) 2008

Book Chapters

1. E. Ioannou. "*Probabilistic Entity Resolution*". In book: Encyclopedia of Database Systems, pages 1-3, 2017, Springer New York.

2. H. Eichelberger, C. Niederee, A. Dollas, E. Ioannou, C. Qin, G. Chrysos, C. Hube, T. Tran, A. Nydriotis, P. Malakonakis, S. Bukhard, T. Becker, M. Garofalakis. *"Configure, Generate, Run: Model-based Development for Big Data Processing"*. In book: SCITEPRESS, 2016.

3. S. Staworko, and E. Ioannou. "*Management of Inconsistencies in Data Integration".* In book: Data Exchange, Integration, and Streams, Dagstuhl Follow-Ups", Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Chapter 9, pages 217-225, 2013.

4. E. Ioannou, W. Nejdl, C. Niederée, and Y. Velegrakis. "*Entity Linkage Management with Uncertain Data".* In book: Semantic Search Over the Web, Chapter 9, 2012, Springer.

Journal Papers

1. E. Ioannou and Y. Velegrakis. *"EMBench^{++}: Benchmark Data for Extensive Evaluation of Matching-Related Methods"*. Accepted at the Semantic Web journal (SWJ).

2. E. Ioannou, and Y. Velegrakis. "*Searching Web 2.0 Data Through Entity-Based Aggregation*". In Transactions on Computational Collective Intelligence (TCCI), Vol. 21, pages 159-174, 2016.

3. E. Ioannou, and M. Garofalakis. *"Query Analytics over Probabilistic Databases with Unmerged Duplicates".* In IEEE Transactions on Knowledge and Data Engineering (TKDE), Vol. 27, Issue 8, pages 2245-2260, 2015.

4. E. Ioannou, N. Rassadko, and Y. Velegrakis. "*On Benchmark Data Generation for Entity Matching".* In Journal on Data Semantics (JoDS), Springer, Vol. 2, Issue 1, pages 37-56, 2013.

5. S. Christodoulakis, M. Garofalakis, E. Petrakis, A. Deligiannakis, V. Samoladas, E. Ioannou, O. Papapetrou, and S. Sotiriadis. *"Data Management Research at the Technical University of Crete"*. In SIGMOD Record, Vol. 32, Number 4, Dec. 2013.

6. G. Papadakis, E. Ioannou, C. Niederée, T. Palpanas, and W. Nejdl. "*A Blocking Framework for Entity Resolution in Heterogeneous Information Spaces".* In IEEE Transactions on Knowledge and Data Engineering (TKDE), Vol. 25, Issue 12, pages 2665-2682, 2013.

7. E. Minack, R. Paiu, S. Costache, G. Demartini, J. Gaugaz, E. Ioannou, P. Chirita, and W. Nejdl. "*Leveraging Personal Metadata for Desktop Search -The Beagle++ System"*. In Journal of Web Semantics, 2010.

Conference Papers

1. E. Ioannou and M. Garofalakis. "*Holistic Query Evaluation over Information Extraction Pipelines*". In Proceedings of the 44th International Conference on Very Large Data Bases (PVLDB), 2018, Brazil.

2. P. Kozikowski, E. Ioannou, Y. Velegrakis, and F. Guerra. *"Support of Part-whole Relations in Query Answering"*. In Proceedings of the 1st KEYSTONE Conference (IKC), September 2015, Portugal.

3. E. Ioannou, and M. Garofalakis. *"Analytics over Probabilistic Unmerged Duplicates"*. In Proceedings of the 8th Conference on Scalable Uncertainty Management (SUM), September 2014, London.

4. K. Stavrianou, A. Anastasiou, Z. Bliznakov, A. Deligiannakis, N. Giatrakos, M. Haritou, E. Ioannou, D. Koutsouris, P. Malataras, N. Pallikarakis, and C. Tsirmpas. *"Information extraction, matching and reporting for medical devices vigilance"*. In Proceedings of the 6th European Conference of the International Federation for Medical and Biological Engineering (MBEC), September 2014, Croatia.

5. E. Ioannou, and Y. Velegrakis. "*EMBench: Generating Entity-Related Benchmark Data*". In Proceedings of the 13th International Semantic Web Conference (ISWC), October 2014, Italy.

6. G. Papadakis, E. Ioannou, C. Niederée, T. Palpanas, and W. Nejdl. "*Efficient Entity Resolution for Large Heterogeneous Information Spaces".* In Proceedings of the 5th ACM International Conference on Web Search and Data Mining (WSDM), February 2012, Seattle.

7. E. Ioannou, W. Nejdl, C. Niederée, and Y. Velegrakis. "*LinkDB: A Probabilistic Linkage Database System".* In Proceedings of the ACM SIGMOD International Conference on Management of Data (demo track), 12-16 June 2011, Athens.

8. O. Papapetrou, E. Ioannou, and D. Skoutas. "*Efficient Discovery of Frequent Subgraph Patterns in Uncertain Graph Databases".* In Proceedings of the 14th International Conference on Extending Database Technology (EDBT), March 2011, Sweden.

9. G. Papadakis, E. Ioannou, C. Niederée, and P. Fankhauser. "*Efficient Entity Resolution for Large Heterogeneous Information Spaces".* In Proceedings of the 4th ACM International Conference on Web Search and Data Mining (WSDM), February 2011, Hong Kong.

10. G. Papadakis, E. Ioannou, C. Niederée, T. Palpanas, and W. Nejdl. "*Eliminating the Redundancy in Blocking-based Entity Resolution Methods".* In Proceedings of the ACM/IEEE Joint Conference on Digital Libraries (JCDL), June 2011, Ottawa.

11. E. Ioannou, W. Nejdl, C. Niederée, and Y. Velegrakis. "*On-the-Fly Entity-Aware Query Processing in the Presence of Linkage".* In Proceedings of the 36th International Conference on Very Large Data Bases (PVLDB), September 2010, Singapore.

12. E. Ioannou, C. Niederée, and Y. Velegrakis. "*Enabling Entity-Based Aggregators for Web 2.0 data".* In Proceedings of the 19th International World Wide Web Conference (WWW), April 2010, pages 1119-1120, Raleigh, NC, USA.

13. Z. Miklos, N. Bonvin, P. Bouquet, M. Catasta, D. Cordioli, P. Fankhauser, J. Gaugaz, E. Ioannou, H. Koshutanski, A. Mana, C. Niederée, T. Palpanas, and H. Stoermer. "*From Web Data to Entities and Back".* In 22nd International Conference on Advanced Information Systems Engineering (CAiSE), June 2010, Hammamet.

14. E. Ioannou, O. Papapetrou, D. Skoutas, and W. Nejdl. "*Efficient Semantic-Aware Detection of Near Duplicate Resources".* In Proceedings of the 7th Extended Semantic Web Conference (ESWC), June 2010, pages 136-150, Heraklion.

15. O. Papapetrou, G. Papadakis, E. Ioannou, and D. Skoutas. "*Efficient Term Cloud Generation for Streaming Web Content".* In 10th International Conference on Web Engineering (ICWE), July 2010, pages 385-399, Vienna.

16. E. Ioannou, C. Niederée, and W. Nejdl. "*Probabilistic Entity Linkage for Heterogeneous Information Spaces".* In Advanced Information Systems Engineering, 20th International Conference (CAiSE), June 2008, pages 556-570, Montpellier.

Workshop Papers

1. A. Nydriotis, P. Malakonakis, N. Pavlakis, G. Chrysos, E. Ioannou, E. Sotiriades, M. Garofalakis, A. Dollas. *"Leveraging Reconfigurable Computing in Distributed Real-time Computation Systems"*. In Big Data Processing - Reloaded Workshop co-located at ICDT/EDBT, March 2016, France.

2. G. Papadakis, E. Ioannou, C. Niederée, T. Palpanas, and W. Nejdl. "*To Compare or Not to Compare: Making Entity Resolution more Efficient"*. In Semantic Web Information Management Workshop co-located with SIGMOD, June 2011, Athens.

3. S. Costache, J. Gaugaz, E. Ioannou, C. Niederée, and W. Nejdl. "*Detecting Contexts on the Desktop Using Bayesian Networks"*. In Desktop Search Workshop co-located with SIGIR, July 2010, Geneva.

4. E. Ioannou. "*Entity-Aware Query Processing for Heterogeneous Data with Uncertainty and Correlations"* (Best Submission Award). In Joint EDBT/ICDT Ph.D. Workshop, March 2009, St.-Petersburg.

5. E. Ioannou, S. Sathe, N. Bonvin, A. Jain, S. Bondalapati, G. Skobeltsyn, C. Niederée, and Z. Miklós. "*Entity Search with NECESSITY"*. In Web and Databases Workshop (WebDB) co-located with ACM SIGMOD, June 2009, Providence, Rhode Island.

6. E. Ioannou, J. De Coi, A. Kösling, D. Olmedilla, and W. Nejdl. "*Access Control for sharing Semantic Data Across Desktops"*. In International Workshop on Privacy Enforcement and Accountability with Semantics (PEAS) co-located with International Semantic Web Conference, November 2007, Busan.

7. I. Brunkhorst, P. Chirita, S. Costache, J. Gaugaz, E. Ioannou, T. Iofciu, E. Minack, W. Nejdl, and R. Paiu. "*The Beagle++ Toolbox: Towards an Extendable Desktop Search Architecture"*. In Semantic Desktop Workshop (SemDesk) co-located with International Semantic Web Conference, November 2006, Athens, GA, USA.

Refereed National Conferences and Theses

1. E. Ioannou, and M. Garofalakis. "*Επερωτήσεις σε Πιθανοτικές Βάσεις με Μη-Ενωμένα Αντικείμενα*". In Proceedings of the 13th Hellenic Data Management Symposium (HDMS), June 2015, Athens.

2. G. Papadakis, E. Ioannou, C. Niederée, T. Palpanas, and W. Nejdl. *"Πέρα από τα 100 εκατομμύρια οντότητες: μεγάλης κλίμακας σύζευξη ετερογενών δεδομένων με βάση τεχνικές blocking"*. In Proceedings of the 11th Hellenic Data Management Symposium (HDMS), June 2012, Chania.

3. E. Ioannou. "*Entity Linkage for Heterogeneous, Uncertain, and Volatile Data"*. Ph.D thesis at University of Hannover and L3S Research Center, April 2011, Hannover.

4. O. Papapetrou, E. Ioannou, and D. Skoutas. "*Αποδοτική Εύρεση Συχνών Υπογράφων σε Βάσεις Πιθανοτικών Γράφων"*. In Proceedings of the 10th Hellenic Data Management Symposium (HDMS), June 2011, Athens.

5. G. Papadakis, E. Ioannou, C. Niederée, and P. Fankhauser. "*Αποδοτική Σύζευξη Οντοτήτων για Μεγάλους, Ετερογενείς Χώρους Πληροφοριών"*. In Proceedings of the 10th Hellenic Data Management Symposium (HDMS), June 2011, Athens.

6. E. Ioannou, C. Niederée, and Y. Velegrakis. "*Σύστημα Ενοποίησης Δεδομένων με Βάση τα Αντικείμενα"*. In Proceedings of the 9th Hellenic Data Management Symposium (HDMS), June 2010.