

Curriculum Vitae

Yannis Tzitzikas

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Personal Information

Birth date	27 October 1970
Birth place	Athens, Greece
Nationality	Greek
Marital Status	Married, one son
Home Address	Heraklion Crete
Work Address	Department of Computer Science, University of Crete Voutes Campus, 700 13 Heraklion Crete, Greece Tel: +30 2810 393 521 & Institute of Computer Science (ICS) Foundation for Research and Technology - Hellas (FORTH) Science and Technology Park of Crete, N. Plastira 100, Vassilika Vouton Heraklio, Crete, GREECE GR700 13 Tel: +30 2810 391 621, Fax: +30 2810 391 638 E-Mail: tzitzik@ics.forth.gr Web page: http://www.ics.forth.gr/~tzitzik
Current Position	Professor of Information Systems at the Computer Science Department University of Crete, and Affiliated Researcher of the Information Systems Laboratory (ISL) at FORTH-ICS.
Languages	English (read, written, spoken: fluently) Italian (read, written, spoken: medium level) French (read: fair, written, spoken: basic level) (Certificat) Greek (Mother Tongue)



Short Biography

Yannis Tzitzikas is Professor of Information Systems in the Computer Science Department at University of Crete (Greece) and Affiliated Researcher of the Information Systems Laboratory at FORTH-ICS (Greece). He studied at the University of Crete and he conducted post-doctoral research at (a) the University of Namur (Belgium), (b) ISTI-CNR (Pisa, Italy) and (c) VTT Technical Research Centre of Finland.

His expertise and research falls in the following areas of Information Systems: Semantic Data Management (comparison functions, mapping methods, data transformations, knowledge evolution, indexes, query languages, search methods, integration methods, question answering, visualization, open data management), Exploratory Search (interactive information retrieval, preference management, automated ranking, decision support), Information Retrieval (indexes, ranking methods, query expansion methods), Knowledge Representation and Reasoning (ontologies, knowledge evolution, ontology engineering), Natural Language Processing (entity identification and enrichment, annotation, question answering, conversational access) and Digital Preservation Information Systems (methodologies and technologies).

He has co-authored 3 books and 180 papers in refereed journals and conferences (including ACM Computing Surveys, ACM Transactions on Information Systems, ACM Transactions on the Web, VLDB Journal, IEEE Transactions on Knowledge and Data Engineering, JIIS, JDAPD, ECIR, ISWC,

EWSC), he has received three best paper awards (at CIA'2003, ISWC'07 and MTSR'20) as well as other awards. He has supervised as main supervisor 3 PhDs, 26 MSc theses and more than 50 Diploma Theses. He actively participates to EU projects (totalling more than 1,5 MEuros funding for FORTH-ICS) and participates to the scientific committees of several international conferences and journals.

Since 2005 he coordinates the Semantic Access and Retrieval group, and from 2019 also the Centre for Cultural Informatics of the Information Systems Laboratory of FORTH-ICS. He is the coordinator of the Clarity and Open Data Management Team of the University of Crete and he is member of the Executive Committee ERCIM (the European Research Consortium for Informatics and Mathematics).

Education

September 2002 (26/9/02)

Doctor of Philosophy (Computer Science)

Department of Computer Science, University of Crete, Heraklion, Greece.

Dissertation Topic: "Collaborative Ontology-based Information Indexing and Retrieval"

Supervision: Prof. Panos Constantopoulos, Prof. Nicolas Spyrtatos, Prof. Dimitris Plexousakis;

Dissertation Committee Members: Prof. Vassilis Christophides, Prof. Yannis Ioannidis, Prof.

Manolis Koubarakis, Prof. Timos Sellis.

June 1999 (30/6/99)

Pedagogical Studies for Teaching in Technical Education (SELETE, Heraklion, Crete)

(studies conducted in parallel to his military service at Greek Army).

November 1995 (23/11/95)

Master of Science (Computer Science)

Department of Computer Science, University of Crete, Heraklion, Greece.

Thesis Topic: "View Updates in Knowledge Bases of Telos"

Supervisor: Prof. Panos Constantopoulos

October 1992 (21/9/92)

Bachelor of Science (Computer Science)

Department of Computer Science, University of Crete, Heraklion, Greece

Degree: *very good*

June 1988

High School Graduation Certificate "APOLYTIRIO"

3rd Public Lyceum of Heraklion, Crete, Greece.

Work/Research Experience

September 2006 - Now

Full Professor in the Computer Science Department of the University of Crete (2016-2021: Associate Professor, 2011-2016: Tenured Assistant Professor, 2006-2011: Assistant Professor).

February 2006 - Now

Affiliated Researcher of Information Systems Lab (ISL) at FORTH-ICS (Greece) and coordinator of the ISL activity “Information Retrieval and Analysis” and the corresponding group (Semantic Access and Retrieval Group, <http://www.ics.forth.gr/isl/sar>).

From Sept 2019, also Head of the CCI (Centre for Cultural Informatics) of FORTH/ICS/ISL (<http://www.ics.forth.gr/isl/cci>)

February 2005 – September 2006

Adjunct Assistant Professor in the Computer Science Dep. at University of Crete (Greece).

April 2004 – February 2005

Post-Doctoral researcher at the Computer Science Department of University of Namur (F.U.N.D.P), Belgium.

Scientific responsible: Prof. Jean-Luc Hainaut.

Research topics: Novel techniques for Information Systems (Re-)Engineering: Random Walks for ER diagrams, automatic and semi-automatic techniques for conceptual schema drawing.

July 2003 – April 2004

ERCIM Post-Doctoral fellow at the Information Systems Lab of the VTT Technical Research Center of Finland.

Scientific responsible: Raimo Launonen.

Research: Scientific and technical manager of the two-term seven-student project “FASTAXON: A system for FAST (and Faceted) TAXONomy design” of the Helsinki University of Technology (HUT).

October 2002 – July 2003

ERCIM Post-Doctoral fellow at Istituto di Scienza e Tecnologie della Informazione [ISTI], Consiglio Nazionale delle Ricerche [CNR], Pisa, Italy.

Scientific responsible: Dr. Carlo Meghini

Research topics: Query evaluation algorithms for P2P systems, information integration, unified interaction models.

December 1999 – September 2002

Research Assistant, Institute of Computer Science [ICS], Foundation for Research and Technology, Hellas [FORTH], Heraklion, Greece.

Participation in several national and EU-funded research projects.

July 2001 – August 2001

Visiting researcher at the Meme Media Lab of the Department of Electrical Engineering - University of Hokkaido (Japan).

January 1998 – September 1999

Hellenic Army (obligatory military service in accordance to the Hellenic Conscription Law).

December 1995 – October 1997

Ph.D. Candidate, Computer Science Department, University of Crete, Heraklion, Greece.

October 1992 – November 1995

M.Sc. Student, Computer Science Department, University of Crete, Heraklion, Greece.

Thesis Topic: "View Updates in Knowledge Bases of Telos".

Supervisor: Panos Constantopoulos

June 1992 – December 1994

Research Assistant, Institute of Computer Science [ICS], Foundation for Research and Technology, Hellas [FORTH], Heraklion, Greece.

Participation in the project ITHACA (ESPRIT project) and in the development of the semantic network-based repository system "Semantic Index System" (SIS).

Teaching Experience

February 2005 – Now

Computer Science Dep. at University of Crete (Greece). **Instructor** of:

CS-252 Object-Oriented Programming (07-08, 13-14,14-15,15-16,16-17,17-18,18-19,19-20,20-21)

CS-351 Information Systems Analysis and Design (06-07, 07-08, 08-09, 09-10,10-11,11-12,12-13)

CS-359 Web Programming (09-10,10-11,11-12,12-13,14-15 with P. Papadakos)

CS-463 Information Retrieval Systems (05-06, 06-07, 07-08, 08-09, 09-10, 10-11,11-12,12-13,13-14,14-15,15-16,16-17,17-18)

CS-561 Web Data Management (13-14, 14-15,15-16,16-17,17-18,18-19,19-21)

CS-562 Advanced Database Topics (07-08, 08-09, 09-10, 11-12) with N. Spyrtos and V.

Christophides

CS-563 Advanced Topics in Information Retrieval (18-19,19-20)

October 1992 – September 2002

Teaching Assistant

Computer Science Department, University Crete, Heraklion, Greece.

Courses taught: CS465 – Information Systems, CS280 - Theory of Computation, CS265 – Conceptual Modelling, CS-140 Programming, CS-120 Digital Design, CS100 – Introduction to Computer Science. Duties involved lecturing, supervising, marking and student counselling.

1997 – 1999

Instructor and Scientific Responsible

Instructor and Scientific Responsible in five (5) Teachers' Mobility Programs (sponsored by the European Union) of the Direction of Higher Education of the prefecture of Heraklion and the 1st Office of the Higher Education Department of the prefecture of Heraklion. The curriculum of the programs regarded Office Automation, Networks and Telecommunication Services, and Internet (& WWW) Search, Authoring and Publication.

Information: Mrs Sofia Mousteraki, Mr Antonis Zaharioudakis.

Expertise and Research Areas

My expertise and research falls in the following areas of Information Systems:

- Semantic Data Management (comparison functions, mapping methods, data transformations, knowledge evolution, indexes, query languages, search methods, integration methods, question answering, visualization, open data management)
- Exploratory Search (interactive information retrieval, preference management, automated ranking, decision support)
- Information Retrieval (indexes, ranking methods, query expansion methods)
- Knowledge Representation and Reasoning (ontologies, knowledge evolution, ontology engineering)
- Natural Language Processing (entity identification and enrichment, annotation, question answering, conversational access)
- Digital Preservation Information Systems (methodologies and technologies)

Recent Research Projects

European Projects

- PE15 Project **4CH** (Competence Center for the Conservation of Cultural Heritage), H2020-DT-Transformations-20-200, CSA, accepted for funding, duration 3 years (2020-2023)
Role: Scientific Responsible of FORTH
Funding for FORTH: ~86K Euro
- PE14 Project **BlueCloud** (Piloting innovative services for Marine Research & the Blue Economy), H2020-EU.3.2.5.1, grant 862409, 1/10/2019-30/9/2022
Role: Scientific Responsible of FORTH
Funding for FORTH: 98,875 Euro
- PE13 Project **AI4EU** (A European AI On Demand Platform and Ecosystem), H2020, ICT-26 2018, grant 825619, 1/1/2019 – 31/12/2022
Role: Technical Coordinator of FORTH's activities
Funding for FORTH: 54,562 Euro
- PE12 Project **BlueBRIDGE** (Building Research environments for fostering Innovation, Decision making, Governance and Education to support Blue growth), H2020-EINFRA-2015-1, 1/9/2015-1/3/2018
Role: Scientific Responsible of FORTH
Total funding: 5.295 millions €, Funding for FORTH-ICS: 202,250 Euros.
- PE11 Project **Data transformation and ingestion for LIVEWHAT wiki**, 2/8/2016 – 21/9/2016
Role: Scientific Responsible for FORTH-ICS for the project with "ELKE" of University of Crete in the context of the European Project LIVEWHAT - "Living with Hard Times: How European Citizens Deal with Economic Crises and Their Social and Political Consequences" for transforming extracted data and ingesting them to a wiki.
Funding for FORTH: 2,544 € (plus VAT 24%)
- PE10 Project **Data Extraction for TransSOL**, 1/2/2016-29/2/2016
Role: Scientific Responsible of FORTH-ICS for the project with "ELKE" of University of Crete in the context of the European Project TransSOL (European solidarity at a crossroads) for extracting data related to social solidarity structures from websites
Funding for FORTH-ICS: 4,500 € (+ ΦΠΑ 24%)
- PE9 Project **Data Extraction for LIVEWHAT 1/6/2015-31/6/2015**
Scientific Responsible of FORTH-ICS for the project with "ELKE" of University of Crete in the context of the European Project LIVEWHAT - "Living with Hard Times: How European Citizens Deal with Economic Crises and Their Social and Political Consequences" for extracting data from websites of 9 European Countries.

- Funding for FORTH-ICS: 5,500 €
- PE8 Project **iMARINE** (Data e-Infrastructure Initiative for Fisheries Management and Conservation of Marine Living Resources), FP7 Data Infrastructure for eScience (INFRA 2011-1.2.2), 1/11/2011-30/9/2014
 Role: Scientific Responsible of FORTH-ICS (responsible in the project for anything related to semantic data management in the research infrastructure: ontologies, mappings, construction of semantic warehouses, connecting structured with unstructured content).
 Total funding: 5 millions €, Funding for FORTH-ICS: 217.462 Euros
- PE7 Project **SCIDIP-ES** (SCIENCE Data Infrastructure for Preservation - Earth Science), FP7 Data Infrastructure for eScience (INFRA 2011-1.2.2), 1/9/2011 – 31/12/2014
 Role: Scientific Responsible of FORTH-ICS for the project (responsible for the all project deliverables related to the interoperability of models, metadata and semantics, and for the service GapIS (related to dependency management for the needs of digital preservation) of the research infrastructure.
 Total funding: 6.6 millions €, Funding for FORTH-ICS: 274.760 Euros
- PE6 NoE (Network of Excellence) **APARSEN** (Alliance Permanent Access to the Records of Science in Europe Network), FP7-ICT (Grant agreement 269977)
 Role: Scientific Responsible of FORTH-ICS (and leader of the Work Package Interoperability).
 Total funding: 6.84 millions €, Funding for FORTH-ICS: 255.730 €
- PE5 COST ACTION IC2002 **MUMIA** (Multilingual and Multifaceted Interactive Information Access), 2010-2014
 Role: National Representative of Greece and Vice Chair of the Working Group on Semantic and Faceted Search (one of the 5 working groups). Co-chair of the program and local organizer of the 3rd MUMIA Training School, a five days long summer school with 13 internationally well-known lecturers from 9 European countries, and more than 50 students from 17 European countries that took place at the premises of FORTH (July 21-25, 2014).
- PE4 Project **EO-USNG-Phase 2** (EO User Service Next Generation – Phase 2), Contract Num. with ESA (European Space Agency): 21086/07/I-LG, Contr. Num. with ACS: CTR/ACS/FORTH/EO-USNG/09-289/1.0, 1/5/2009 - 30/4/2010
 Objective: advancing the access services of ESA (European Space Agency).
 Role: Scientific responsible of FORTH-ICS
 ESA Funding for FORTH-ICS : € 35 000.
- PE3 Project **EO-USNG** (EO User Service Next Generation),
 Contr. Num. with ESA: 21086/07/I-LG, Contr. Num. with ACS: CTR/ACS/FORTH/EO-USNG/07-739, 1/2/2008-1/10/2008
 Objective: advancing the access services of ESA (European Space Agency).
 ESA Funding for FORTH-ICS : € 25 000.
- PE2 Project **CASPAR** (Cultural, Artistic and Scientific knowledge for Preservation, Access and Retrieval), FP6-2005-IST-033572, 1/4/2006 - 30/9/2009 (42 months).
 Role: I had an active participation and my work on dependency management was one of the key results of this project. The related deliverables were characterized as “*of remarkably high quality*” at the annual project reviews
 EU Funding: € 8 800 000, Funding for FORTH-ICS: 665.400 Euros
- PE1 Project **KP-LAB (Knowledge Practices Laboratory)**, FP6-2004-IST-4, 1/2/2006-31/01/2011,
 Role: Participation to the development of the SWKM platform with emphasis on issues related to the comparison (delta) of semantic models and on applying Semantic Technologies for e-learning
 EU funding: 11M Euros. Funding for FORTH-ICS: 939.132 Euros.

Funded by the Private Sector

- PP5 Project **GRSF** (Upgrading of features and facilities of the Knowledge Base for the Global Record of Stocks and Fisheries), Contract with FAO (Food and Agriculture Organization of the United Nations), 20/12/2019-31/10/2020

- Role: Scientific Responsible of FORTH
Funding for FORTH: 15,800 K Euros
- PP4 Project **Prototype Implementation of Centralized Database and Web Platform for Sustainable Seafood Information**, 1/1/2018-31/3/2018
Contract between FORTH and Sustainable Fisheries Partnership Foundation
(<https://www.sustainablefish.org/>)
Role: Scientific Responsible of FORTH
Funding for FORTH: 10 K Euros
- PP3 Project **Linked Data-assisted Statistical Spoken Dialogue System** 1/4/2017 – 31/3/2019,
Funded by TOSHIBA RESEARCH EUROPE Ltd, Cambridge UK
Role: Scientific Responsible (with Dimitris Plexousakis)
Funding for FORTH: 130,000 Euros
- PP2 Project **Design of Centralized Database and Web Platform for Sustainable Seafood Information**, Nov 2017 – January 2018
Contract between FORTH and Sustainable Fisheries Partnership Foundation
(<https://www.sustainablefish.org/>)
Role: Scientific Responsible of FORTH
Funding for FORTH: 20 K Euros
- PP1 Project **"Ανάπτυξη Δικτύου Επιχειρηματικής και Τεχνολογικής Πληροφορικής" (2011-2014)**
ICT expert of the area "Semantic Web Technologies and Information Integration" in the context of a SEV (SEV-Hellenic Federation of Enterprises) project undertaken by FORTH.

For Funding PhD and Post-Doctoral Studies

- PS3 Project **"ReKnow - Research Knowledge Documentation, Analysis and Exploration in Empirical and Descriptive Sciences"**, H2020 Marie Skłodowska-Curie Individual Fellowships (MSCA-IF-2019), Duration: 24 months (July 2020 – June 2022)
Role: Main Supervisor of the Post-Doctoral fellow Pavlos Fafalios.
Funding: 166,085 Euro
- PS2 Project **«Υπηρεσίες για τη Διασύνδεση και Ολοκλήρωση Μεγάλου Πλήθους Σημασιολογικών Συνολοδεδομένων»** 01/08/2017 - 31/3/2020
Hellenic Foundation for Research and Innovation (ΕΛΙΔΕΚ), Hellenic Ministry of Development - General Secretariat for Research & Technology (Hellenic Ministry of Education, and Religious Affairs). Role: Scientific responsible of the accepted proposal for funding the doctoral studies of Michalis Mountantonakis.
Funding 24,300 Euro
- PS1 Project **«Ηράκλειτος II – Ενίσχυση του ανθρώπινου ερευνητικού δυναμικού μέσω της υλοποίησης διδακτορικής έρευνας» 2011-2013** (1/9/2010-30/11/2013)
Scientific responsible of the accepted proposal for funding the doctoral studies of Panagiotis Papadakos (who successfully completed his PhD thesis).
Funding: 28,750 Euro

Publications

In numbers

<i>Publication Type</i>	<i>Number</i>
A. Books (including edited monographs)	3
B. Edited Collections	1
Γ. Book Chapters	12
Δ. Journals (refereed)	50
E. International Conferences (referred) :	
E1. Full conference papers (referred)	68
E2. Workshop/symposia papers (referred)	16
E3. Short/demo papers in conferences (referred)	15
E4. Reviewed Abstracts	3
Total of E1-E4: 102	
Z. National Conferences (referred)	16
H. Newsletters	11
Θ. Technical reports and theses	17
I. Scientific responsible for book translations	1

Number of publications: 212

Number of refereed publications: 180

Selected Publications (of the last 5 years)

- K. Manioudakis and Y. Tzitzikas, **Faceted Search with Object Ranking and Answer Size Constraints**, ACM Transactions on Information Systems, 39(1), Nov 2020
- C. Nikas, G. Kadilierakis, P. Fafalios 1 and Y. Tzitzikas, **Keyword Search over RDF: Is a Single Perspective Enough?**, Big Data and Cognitive Computing, 4(3), Special Issue Semantic Web Technology and Recommender Systems, August 2020
- M. Mountantonakis, Y. Tzitzikas, **Content-based Union and Complement Metrics for Dataset Search over RDF Knowledge Graphs**, ACM Journal of Data and Information Quality, 12(2), 2019
- M. Mountantonakis, Y. Tzitzikas, **Large Scale Semantic Integration of Linked Data: A Survey**, ACM Computing Surveys, 52(5), Sept 2019
- M. Mountantonakis and Y. Tzitzikas, **Scalable Methods for Measuring the Connectivity and Quality of Large Numbers of Linked Datasets**, ACM Journal of Data and Information Quality (JDIQ), 9(3), 2018
- Y. Tzitzikas, N. Manolis, P. Papadakos, **Faceted Exploration of RDF/S Datasets: A Survey**, Journal of Intelligent Information Systems (JIIS), 2017, 48: 329. doi:10.1007/s10844-016-0413-8
- C. Lantzaki, P. Papadakos, A. Analyti, Y. Tzitzikas, **Radius-aware Approximate Blank Node Matching using Signatures**, Journal Knowledge and Information Systems (KAIS), 50(2), 2017.
- M. Mountantonakis and Y. Tzitzikas, **On Measuring the Lattice of Commonalities Among Several Linked Datasets**, 42nd International Conference on Very Large Data Bases (VLDB'16), New Delhi, India, September 5-9, 2016
- Myron Papadakis and Yannis Tzitzikas, **Answering Keyword Queries through Cached Subqueries in Best Match Retrieval Models**, Journal of Intelligent Information Systems, 44(1), 2015

Books (including edited monographs) (3)

- A3 Yannis Tzitzikas and Yannis Marketakis, **Cinderella's Stick - A Fairy Tale for Digital Preservation**, Springer 2018, ISBN 978-3-319-98487-2, pp. 1-249
- A2 Yannis Tzitzikas, **Μια Γεύση από Java**, ISBN 978-960-93-8505-3, Leanpub, Oct 2016, <http://leanpub.com/JavaTaste>
- A1 G. M. Sacco and Yannis Tzitzikas, **“Dynamic Taxonomies and Faceted Search”**, Springer, 2009). Co-Editor, author of two chapters, co-author of three chapters

Edited Collections (1)

- B1 - W. Lindner, M. Mesiti, C Turker, Y. Tzitzikas and A. Vakali, **“Current Trends in Database Technology - EDBT 2004 Workshops”**, Springer LNCS Vol 3268, 2004, XVIII, ISBN:3-540-23305-9.

Book Chapters (12)

- Γ12 Y. Tzitzikas, Y. Marketakis, N. Minadakis, M. Mountantonakis, L. Candela, F.Mangiacrapa, P. Pagano, C. Perciante, D. Castelli, M. Taconet, A. Gentile and G. Gorell, **Methods and Tools for Supporting the Integration of Stocks and Fisheries**, Chapter in Information and Communication Technologies in Modern Agricultural Development, Springer, 2019.
- Γ11 M. Mountantonakis, N. Minadakis, Y. Marketakis, P. Fafalios, Y. Tzitzikas, **Connectivity, Value and Evolution of a Semantic Warehouse**, Accepted for Publication as a book chapter in "Innovations, Developments, and Applications of Semantic Web and Information Systems", 2017
- Γ10 Pavlos Fafalios and Yannis Tzitzikas, **Exploratory Professional Search through Semantic Post-Analysis of Search Results**, *Professional Search in the Modern World*, Springer 2014
- Γ9 Y. Tzitzikas, Y. Marketakis, V. Christophides, **Preservation of Intelligibility of Digital Objects**, in D.G. Giarretta ed. *Advanced Digital Preservation*, Springer, 2011
- Γ8 Yannis Tzitzikas, **Faceted Taxonomy-based Sources**, in G. M. Sacco and Yannis Tzitzikas editors, *Dynamic Taxonomies and Faceted Search*, Springer, 2009.
- Γ7 Sebastien Ferre, Giovanni Maria Sacco, Yannis Tzitzikas, **Comparison with other Techniques**, in G. M. Sacco and Yannis Tzitzikas editors, *Dynamic Taxonomies and Faceted Search*, Springer, 2009.
- Γ6 Yannis Tzitzikas, **Engineering Taxonomy-based Sources**, in G. M. Sacco and Yannis Tzitzikas editors, *Dynamic Taxonomies and Faceted Search*, Springer, 2009.
- Γ5 Sebastien Ferre, Giovanni Maria Sacco, Yannis Tzitzikas, **System Implementation**, in G. M. Sacco and Yannis Tzitzikas editors, *Dynamic Taxonomies and Faceted Search*, Springer, 2009.
- Γ4 Giovanni Maria Sacco, Yannis Tzitzikas, **Conclusion**, in G. M. Sacco and Yannis Tzitzikas editors, *Dynamic Taxonomies and Faceted Search*, Springer, 2009.
- Γ3 D. Kotzinos, G. Flouris, Y. Tzitzikas, D. Andreou, V. Christophides, **Supporting Evolution of Knowledge Artifacts in Web Based Learning Environments**, in *Solutions and Innovations in*

Web-Based Technologies for Augmented Learning: Improved Platforms, Tools and Applications, (Series Title: *Advances in Web-Based Learning*), Publisher: Information Science Reference (ISBN: 1605662380), 2008

- Γ2 N. Spyrtatos and Y. Tzitzikas, **Searching**, *Wiley Encyclopedia of Electrical and Electronics Engineering*, John Wiley & Sons, 2003 (DOI: 10.1002/047134608X.W4324)
- Γ1 Y. Tzitzikas, N. Spyrtatos and P. Constantopoulos, **Deriving Valid Expressions from Ontology Definitions**, *Information Modelling and Knowledge Bases XIII*, Kangassalo H., Welzer T., Jaakkola H., Rozman I., Kawaguchi E. (editors), IOS Press, Amsterdam, 2002.

Journals (refereed) (50)

- Δ50 M. Chatzakis, M. Mountantonakis and Y. Tzitzikas, **RDFsim: Similarity-Based Browsing over DBpedia using Embeddings**, *MDPI Information (Special issue: Data and Metadata Management with Semantic Technologies)*, 2021
- Δ49 Y. Tzitzikas, ME Papadaki, and Manos Chatzakis, **A Spiral-like Method to Place in the Space (and Interact with) too Many Values**, *Journal of Intelligent Information Systems* (accepted for publication 2021)
- Δ48 P. Fafalios, K. Petrakis, G. Samaritakis, K. Doerr, A. Kritsotaki, Y. Tzitzikas, and M. Doerr, **FAST CAT: Collaborative Data Entry and Curation for Semantic Interoperability in Digital Humanities**, *ACM Journal on Computing and Cultural Heritage*, 2021.
- Δ47 K. Petrakis, G. Samaritakis, T. Kalesios, E. García Domingo, A. Delis, Y. Tzitzikas, M. Doerr, P. Fafalios, (2021). **Digitizing, Curating and Visualizing Archival Sources of Maritime History: the case of ship logbooks of the nineteenth and twentieth centuries**. *Drassana (journal of the Barcelona Maritime Museum)*, 28, 60–87. 2021
- Δ46 Maria-Evangelia Papadaki, Nicolas Spyrtatos, Yannis Tzitzikas, **Towards Interactive Analytics over RDF Graphs**, *MDPI Algorithms 2021 (special issue Algorithmic Data Management)*, 14(2), 2021
- Δ45 M. Mountantonakis and Y. Tzitzikas, **Applying Cross-Dataset Identity Reasoning for Producing URI Embeddings over Hundreds of RDF Datasets**, *International Journal of Metadata, Semantics and Ontologies (IJMSO)*, 15(1), 2021
- Δ44 K. Manioudakis and Y. Tzitzikas, **Faceted Search with Object Ranking and Answer Size Constraints**, *ACM Transactions on Information Systems* (accepted for publication) Sept. 2020
- Δ43 C. Nikas, G. Kadilierakis, P. Fafalios 1 and Y. Tzitzikas, **Keyword Search over RDF: Is a Single Perspective Enough?**, *Big Data and Cognitive Computing*, 4(3), Special Issue Semantic Web Technology and Recommender Systems, August 2020
- Δ42 M. Mountantonakis, Y. Tzitzikas, **Content-based Union and Complement Metrics for Dataset Search over RDF Knowledge Graphs**, *ACM Journal of Data and Information Quality*, 2019 (accepted for publication)
- Δ41 P. Fafalios and Y. Tzitzikas, **Answering SPARQL Queries on the Web of Data through Zero-Knowledge Link Traversal**, *SIGAPP Applied Computing Review*, 19(3), November 2019
- Δ40 E. Dimitrakis, K. Sgontzos and Y. Tzitzikas, **A Survey on Question Answering over Linked Data and Documents**, *Journal of Intelligent Information Systems*, DOI: 10.1007/s10844-019-

- 00584-7 (accepted for publication, 2019),
- Δ39 M. Mountantonakis, Y. Tzitzikas, **Large Scale Semantic Integration of Linked Data: A Survey**, ACM Computing Surveys, 52(5), Sept 2019
- Δ38 M. Mountantonakis, Y. Tzitzikas, **LODsyndesis: Global Scale Knowledge Services**, Heritage 1(2), On Provenance of Knowledge and Documentation (Selected Papers from CIDOC'2018), MDPI, 2018
- Δ37 M. Mountantonakis and Y. Tzitzikas, **High Performance Methods for Linked Open Data Connectivity Analytics**, Information 2018, 9(6), ISSN 2078-2489, Special Issue Semantics for Big Data Integration, MDPI, May, 2018
- Δ36 M. Mountantonakis and Y. Tzitzikas, **Scalable Methods for Measuring the Connectivity and Quality of Large Numbers of Linked Datasets**, ACM Journal of Data and Information Quality (JDIQ) , 9(3), 2018
- Δ35 P. Fafalios and Y. Tzitzikas, **Stochastic Re-Ranking of Biomedical Search Results based on Extracted Entities**, Journal of the Association for Information Science and Technology (JASIST), 68(11), 2017
- Δ34 Y. Tzitzikas, N. Bailly, P. Papadakos, N. Minadakis, G. Nikitakis, **Using preference-enriched faceted search for species identification**, IJMSO 11(3): 165-179 (2016)
- Δ33 Y. Tzitzikas and E. Dimitrakis, **Preference-enriched Faceted Search for Voting Aid Applications**, IEEE Transactions on Emerging Topics in Computing (accepted for publication).
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- E24 Y. Tzitzikas, R. Launonen, M. Hakkarainen, P. Kohonen, T. Leppanen, E. Simpanen, H. Tornroos, P. Uusitalo and P. Vanska, **FASTAXON: A system for FAST (and Faceted) TAXONOMY design**, Proceedings of *23rd International. Conference. on Conceptual Modeling, ER'2004*, Shanghai, China, November 2004.
- E23 C. Meghini and Y. Tzitzikas, **Querying Articulated Sources**, Proceedings of the *3rd International Conference on Ontologies, Databases and Applications of Semantics for Large Scale Information Systems, ODBASE'2004*, Larnaca, Cyprus, October 2004.
- E22 Y. Tzitzikas and A. Analyti, **Mining the Meaningful Compound Terms from Materialized Faceted Taxonomies**, Proceedings of the *3rd International Conference on Ontologies, Databases and Applications of Semantics for Large Scale Information Systems, ODBASE'2004*, Larnaca, Cyprus, October 2004.
- E21 Y. Tzitzikas, **An Algebraic Method for Compressing Very Large Symbolic Data Tables**, Proceedings of the *Workshop on Symbolic and Spatial Data Analysis of ECML/PKDD 2004*, Pisa, Italy, September 2004.
- E20 Y. Tzitzikas, C. Meghini and N. Spyrtos, **A Unifying Framework for Flexible Information Access in Taxonomy-based Sources**, Proceedings of the *6th International Conference on Flexible Query Answering Systems, FQAS'2004*, Lyon, France, June 2004.
- E19 Y. Tzitzikas, C. Meghini and N. Spyrtos, **Towards a Generalized Interaction Scheme for Information Access**, Proceedings of the *3rd International Symposium on Foundations of Information and Knowledge Systems, FoIKS'2004*, Vienna, Austria, February 2004.
- E18 Y. Tzitzikas and C. Meghini, **Query Evaluation in Peer-to-Peer Networks of Taxonomy-based Sources**, Proceedings of the *10th International Conference on Cooperative Information Systems, CoopIS'2003*, Catania, Sicily, Italy, November 2003.
- E17 Y. Tzitzikas, A. Analyti and N. Spyrtos, **The Semantics of the Compound Term Composition Algebra**, Proceedings of the *second International Conference on Ontologies, Databases and Applications of Semantics, ODBASE'2003*, Catania, Sicily, Italy, November 2003.
- E16 Y. Tzitzikas, C. Meghini, and N. Spyrtos, **“Taxonomy-based Conceptual Modeling for Peer-to-Peer Networks**, Proceedings of the *22th International Conference on Conceptual Modeling, ER'2003*, Chicago, Illinois, October 2003.
- E15 Y. Tzitzikas and C. Meghini. **Query Evaluation over Networks of Logic-based Mediators** (Position Paper), Proceedings of DL'03, *International Workshop on Description Logics*, Rome, Italy, September 2003.
- E14 Y. Tzitzikas and C. Meghini, **Ostensive Automatic Schema Mapping for Taxonomy-based Peer-to-Peer Systems**, Proceedings of the *7th International Conference on Cooperative Information Agents, CIA'2003*, Helsinki, Finland, August 2003 (BEST PAPER AWARD).
- E13 C. Meghini, Y. Tzitzikas and N. Spyrtos, **An Abduction-based Method for Index Relaxation in Taxonomy-based Sources**, Proceedings of the *28th International Symposium on Mathematical Foundations of Computer Science, MFCS'03*, Bratislava, Slovak Republic, August 2003.

- E12 Y. Tzitzikas, A. Analyti, N. Spyratos and P. Constantopoulos, **An Algebra for Specifying Compound Terms for Faceted Taxonomies**, Proceedings of the *13th European-Japanese Conference on Information Modelling and Knowledge Bases*, Kitakyushu, Japan, June 2003.
- E11 Y. Tzitzikas, N. Spyratos, P. Constantopoulos and A. Analyti, **Extended Faceted Taxonomies for Web Catalogs**, Proceedings of the *3rd International Conference on Web Information System Engineering, WISE-02*, Singapore, December 2002.
- E10 Y. Tzitzikas, N. Spyratos and P. Constantopoulos, **Query Evaluation for Mediators Over Web Catalogs**, Procs of the *27th Int. Conference on Information and Communication Technologies and Programming, ICT&P-2002*, Primorsko, Boulgaria, June 2002.
- E9 Y. Tzitzikas, N. Spyratos, P. Constantopoulos and A. Analyti, **Extended Faceted Ontologies**, (short paper), Proceedings of the *14th International Conference on Advanced Information Systems Engineering, CAiSE-2002*, Toronto, Canada, May 2002.
- E8 N. Spyratos, Y. Tzitzikas and V. Christophides, **On Personalizing the Catalogs of Web Portals**, Proceedings of the *15th International Conference of Florida Artificial Intelligence Research, FLAIRS-2002*, Pensacola, Florida, May 2002.
- E7 Y. Tzitzikas, N. Spyratos and P. Constantopoulos, **Mediators Over Ontology-based Information Sources**, Proceedings of the *2th International Conference on Web Information System Engineering, WISE-01*, Kyoto, Japan, December 2001.
- E6 Y. Tzitzikas, **Democratic Data Fusion for Information Retrieval Mediators**, Proceedings of the *ACS/IEEE International Conference on Computer Systems and Applications, AICCSA'01*, Beirut, Lebanon, June 26-29, 2001.
- E5 Y. Tzitzikas, N. Spyratos and P. Constantopoulos, **Deriving Valid Expressions from Ontology Definitions**, Proceedings of the *11th European-Japanese Conference on Information Modelling and Knowledge Bases*, Maribor, Slovenia, 29 May-1 June, 2001.
- E4 Y. Tzitzikas and P. Constantopoulos, **A Decision-theoretic Model for Information Retrieval Supporting Time Constraints**, Proceedings of the *BCS-IRSG European Colloquium on IR Research*, Darmstadt, Germany, April 4-6, 2001.
- E3 Y. Tzitzikas and P. Constantopoulos, **Context-Driven Information Base Update**, Proceedings of the *8th International Conference on Advanced Information Systems Engineering, CAiSE'96*, Heraklion, Crete, Greece, May 20-24, 1996.
- E2 Y. Tzitzikas, **Exploiting Semantic Networks to Generate Hypermedia**, *3rd Doctoral Consortium on Advanced Information Systems Engineering*, Heraklion, Crete, Greece, May 20-21 1996.
- E1 P. Constantopoulos, Y. Tzitzikas and M. Theodorakis, **Developing Hypermedia Over an Information Repository**, *2nd International WorkShop on Open Hypermedia Systems at Hypertext '96*, Washington DC, USA, March 16-20, 1996.

National Conferences (refereed) (16)

- Z16 K. Papantoniou and Y. Tzitzikas, **NLP for the Greek Language: A Brief Survey**, Proceedings of the 11th Hellenic Conference on Artificial Intelligence (SETN 2020), Athens, Greece, Sept

2020.

- Z15 Γιάννης Τζιτζίκας και Γιάννης Μαρκετάκης, **Αποσυνθέτοντας το Πρόβλημα της Ψηφιακής Διατήρησης με Μοτίβα**, 25ο Πανελλήνιο Συνέδριο Ακαδημαϊκών Βιβλιοθηκών, Ρέθυμνο, Οκτώβριος 2019.
- Z14 Μ. Μουνταντωνάκης, Γ. Τζιτζίκας, **Μετρώντας το Πλέγμα των Κοινών Στοιχείων μεταξύ πολλών Διασυνδεδεμένων Συνολοδοδεδομένων**, 15th Hellenic Data Management Symposium (HDMS'2017), August 2017, Athens, Greece
- Z13 Π. Φαφαλιός, Ι. Κίτσος, Γ. Τζιτζίκας, **Κλιμακώσιμη και Ευέλικτη Υποστήριξη Στιγμαϊας Επισκοπικής Αναζήτησης**, 11th Hellenic Data Management Symposium (HDMS'12), June 2012, Chania, Crete.
- Z12 Η. Kondylakis, D. Plexousakis and Y. Tzitzikas, **Ontology Evolution in Data Integration**, 9th Hellenic Data Management Symposium (HDMS'10), July 2010, Cyprus.
- Z11 Y. Tzitzikas, Y. Marketakis and G. Antoniou, **Task-based Dependency Management for the Preservation of Digital Objects using Rules**, Proceedings of the 6th Hellenic Conference on Artificial Intelligence, SETN-2010, Athens.
- Z10 P. Papadakos, S. Kopidaki, N. Armenatzoglou and Y. Tzitzikas, **Exploratory Web Searching with Dynamic Taxonomies and Results Clustering**, Short Paper at the 8th Hellenic Data Management Symposium (HDMS'09), August 2009, Athens Greece.
- Z9 P. Papadakos, Y. Theoharis, Y. Marketakis, N. Armenatzoglou and Y. Tzitzikas, **Mitos: Design and Evaluation of a DBMS-based Web Search Engine**, Proceedings of the 12th Pan-Hellenic Conference of Informatics (PCI'2008), Samos, Greece, August 2008.
- Z8 D. Zeginis, Y. Tzitzikas and V. Christophides, **On Computing Deltas of RDF/S Knowledge Bases**, Proceedings of the 7th Hellenic Data Management Symposium (HDMS'2008), Heraklion, Greece, July 2008.
- Z7 Y. Tzitzikas, Y. Theoharis and D. Andreou, **On Archiving and Versioning Semantic Web Data**, Proceedings of the 7th Hellenic Data Management Symposium (HDMS'2008), Heraklion, Greece, July 2008.
- Z6 Y. Tzitzikas **Revising Faceted Taxonomies and CTCA Expressions**, Proceedings of the 4th Hellenic Conference on Artificial Intelligence, SETN-2006, Heraklion, Crete, May 2006.
- Z5 C. Meghini, Y. Tzitzikas and Nicolas Spyrtos **Abduction for Extending Incomplete Information Sources**, Proceedings of the 4th Hellenic Conference on Artificial Intelligence, SETN-2006, Heraklion, Crete, May 2006.
- Z4 Y Theoharis, V. Christophides and Y. Tzitzikas, **On Graph Features of Semantic Web Schemas**, Proceedings of the 5th Hellenic Data Management Symposium (HDMS'2006), Thessaloniki, Greece, September 2006.
- Z3 Y. Tzitzikas and Jean-Luc Hainaut, **Less is More: How to Tame a Very Large ER Diagram**, Proceedings of 4th Hellenic Data Management Symposium (HDMS'05), Athens, Greece, August 2005.
- Z2 Y. Tzitzikas, A. Analyti, N. Spyrtos and P. Constantopoulos, **An Algebraic Approach for Specifying Compound Terms in Faceted Taxonomies**, Proceedings of the 2nd Hellenic Data Management Symposium, HDMS'03, Athens, Greece, September, 2003.
- Z1 Y. Tzitzikas, N. Spyrtos and P. Constantopoulos, **Query Translation for Mediators Over Ontology-based Information Sources**, Proceedings of the 2th Hellenic Conference on Artificial Intelligence, SETN-2002, Thessaloniki, Greece, April 2002.

Newsletters (11)

- H11 Y. Tzitzikas and Y. Marketakis, **Reinforcing Fisheries Management through Semantic Data Integration**, ERCIM News, October 2020
- H10 M. Mountantonakis and Y. Tzitzikas, **LoDsyndesis: the biggest Knowledge Graph of the**

Linked open Data Cloud that Includes all Inferred Equivalence Relationships, ERCIM News No. 114, July 2018

- H9 M. Mountantonakis and Y. Tzitzikas, **Services for Large Scale Semantic Integration of Data**, ERCIM News 2017 (111), October 2017
- H8 N. Bailly, N. Minadakis, P. Papadacos, Y. Tzitzikas, **Species Identification through Preference-enriched Faceted Search: Increasing the number of identification tools in FishBase**, XV European Congress of Ichthyology (ECI XV), Porto, Portugal, Sept. 2015
- H7 M. Salampasis, Y. Tzitzikas, **Report on the 3rd MUMIA Training School on Information Retrieval and Interactive Information Access** July 21-25, 2014, FORTH, Heraklion, Crete, Greece, SIGIR Forum 48(2): 111-115, 2014
- H6 M. Herschel, Y. Tzitzikas, K. S. Candan, A. Marian, **Exploratory search: New name for an old hat?**, SIGMOD Blog, June 21, 2014, Ανακοίνωση βασισμένη στη συζήτηση στρογγυλής τραπέζης που έγινε στο ExploreDB (EDBT 2014), Μάρτιος 2014, Αθήνα.
- H5 Y. Tzitzikas, C. Allocca, C. Bekiari, Y. Marketakis, P. Fafalios and N. Minadakis, **Ontology-based Integration of Heterogeneous and Distributed Information of the Marine Domain**, ERCIM News 2014 (96), Special theme: Linked Open Data, January 2014
- H4 Y. Tzitzikas and Y. Marketakis, **Automating the Ingestion and the Transformation of Embedded Metadata (in CASPAR)**, ERCIM News, January 2010
- H3 Y. Tzitzikas and V. Christophides, **Knowledge Management for Digital Preservation (the CASPAR project experience)**, ERCIM News, January 2010
- H2 Y. Tzitzikas and C. Meghini, **“Content-based Retrieval Services in Peer-to-Peer Systems using Taxonomies”**, ERCIM NEWS, Volume 53, April 2003.
- H1 Y. Tzitzikas, N. Spyrtos, P. Constantopoulos and A. Analyti, **“Extended Faceted Taxonomies for Web Catalogs”**, ERCIM NEWS, Volume 51, October 2002.

Technical Reports and Theses (17)

- ⊙17 K. Papantoniou and Y. Tzitzikas, **CS563-QA: A Collection for Evaluating Question Answering Systems**, arXiv:1907.01611, [cs.CL], coRR, 2019
- ⊙16 M. Psaraki and Y. Tzitzikas, **CPOI: A Compact Method to Archive Versioned RDF Triple-Sets**, arXiv:1902.04129 [cs.DB], coRR, 2019
- ⊙15 A. Kokolaki and Y. Tzitzikas, **Facetize: An Interactive Tool for Cleaning and Transforming Datasets for Facilitating Exploratory Search**, coRR abs/1812.10734, December, 2018
- ⊙ 14 C. Lantzaki, Y. Tzitzikas, **Tasks that Require, or can Benefit from, Matching Blank Nodes**. CoRR abs/1410.8536 (2014)
- ⊙ 13 Y. Tzitzikas: **A Simple Method to Produce Algorithmic MIDI Music based on Randomness, Simple Probabilities and Multi-Threading**. CoRR abs/1312.4014 (2013)
- ⊙ 12 M. Doerr and Y. Tzitzikas, **Information Carriers and Identification of Information Objects: An Ontological Approach**, arXiv:1201.0385v1 [cs.DL], 2012 (<http://arxiv.org/abs/1201.0385>)
- ⊙ 11 C. Meghini, Y. Tzitzikas, V. Coltella, A. Analyti, **Query processing in distributed, taxonomy-based information sources**, CoRR, [cs.DC and cs.DB], Sept. 2011, <http://arxiv.org/abs/1109.2425>

- ⊖ 10 M. Hickson, Y. Kargakis and Y. Tzitzikas, **Similarity-based Browsing over Linked Open Data**, CoRR, Digital Libraries, arXiv: 1106.4176 [cs.DL], June 2011, <http://arxiv.org/abs/1106.4176>
- ⊖ 9 P. Papadakos, Y. Theoharis, Y. Marketakis, N. Armenatzoglou and Y. Tzitzikas, **Object-Relational Database Representations for Text Indexing**, CoRR, Information Retrieval, arXiv:0906.3112v1 [cs.IR], June 2009.
- ⊖ 8 P. Papadakos, G. Vasiliadis, Y. Theoharis, N. Armenatzoglou, S. Kopidaki, Y. Marketakis, M. Daskalakis, K. Karamaroudis, G. Linardakis, G. Makrydakis, V. Papathanasiou, L. Sardis, P. Tsialiamanis, G. Troullinou, K. Vandikas, D. Velegrakis and Y. Tzitzikas, **The Anatomy of Mitos Web Search Engine**, CoRR, Information Retrieval, abs/0803.2220, 2008.
- ⊖ 7 C. Meghini, Y. Tzitzikas and A. Analyti, **Query Evaluation in P2P Systems of Taxonomy-based Sources: Algorithms, Complexity, and Optimizations**, CoRR arXiv:0709.3034v1 [cs.DB], 2007.
- ⊖ 6 Y. Tzitzikas, A. Analyti, N. Spyrtos and P. Constantopoulos, **An Algebra for Specifying Compound Terms for Faceted Taxonomies**, *Technical Report FORTH-ICS-TR-314*, October 2002.
- ⊖ 5 Y. Tzitzikas and N. Spyrtos, **Result Fusion by Mediators Using Voting and Utility Functions**, CNRS-Universite de Paris Sud, Laboratoire de Recherche en Informatique, Rapport de Recherche No 1332, Sep 2002.
- ⊖ 4 Y. Tzitzikas, **Collaborative Ontology-based Information Indexing and Retrieval**, PhD Thesis, Computer Science Department, University of Crete, Greece, September 2002.
- ⊖ 3 Y. Tzitzikas, N. Spyrtos and P. Constantopoulos, **Extended Faceted Ontologies for Web Portals**, *Technical Report FORTH-ICS-TR-293*, October 2001.
- ⊖ 2 Y. Tzitzikas, **View Updates in Knowledge Bases**, Master's Thesis, Technical Report FORTH-ICS-TR-142, October 1995.
- ⊖ 1 D. Daskalakis and Y. Tzitzikas, **Customizing Data Entry Forms**, Foundation of Research and Technology - Institute of Computer Science - Information Systems and Software Technology Group. Working Paper No#9., (1994-1995)

Miscellanea

- I2 Michalis Mountantonakis and Yannis Tzitzikas, Services for Connecting and Integrating Big Number of Datasets, Poster Presentation at the 12th FORTH RETREAT 2019, Patra, Oct 15-16, 2019
- I1 Scientific responsible for the translation of the book “Dennis, Wixom, Tegarden, Systems Analysis and Design in UML 2.0”, in Greek by Kleidarithmos, 2010.

Citations

Scholar Google (on Oct 2020) returned 2073 citations and h-index equal to 22.
 “Publish or Perish” (on January 2016) returned 1288 citations and h-index equal to 19.
 “Publish or Perish” (on May 2010) returned 498 citations and h-index equal to 12.

Awards and Distinctions

Best Paper Award at the *14th International Conference on Metadata and Semantics Research (MTSR 2020)*, Dec 2-4, 2020, for the paper "On the Evolution of Semantic Warehouses: The Case of Global Record of Stocks and Fisheries" (work done in collaboration with the Y. Marketakis, A. Gentile, B. van Niekerk and M. Taconet).

Supervisor of the PhD Thesis of Michalis Mountantonakis that won the 2020 SWSA (Semantic Web Science Association) Distinguished Dissertation Award.

Best Poster Presentation Award-ICS at the 12th FORTH RETREAT 2019, Patra, Oct 15-16, 2019, for the work: Michalis Mountantonakis and Yannis Tzitzikas, Services for Connecting and Integrating Big Number of Datasets.

Recognized Reviewer Award of the 41th European Conference on Information Retrieval (*ECIR, 2019*), 14-18 April, 2019, Cologne, Germany

Best Reviewer Award at the 36th European Conference on Information Retrieval (*ECIR 2014*), 13-16 April, 2014 Amsterdam (one of the four winners)

Best Paper Award at the *6th International Semantic Web Conference (ISWC'2007)*, Korea, Nov. 2007, for the paper "**On the Foundations of Computing Deltas between RDF models**" (work done in collaboration with the MSc student D. Zeginis and Prof. V. Christophides).

Best Paper Award in the CIA'2003 conference for the work entitled "Ostensive Automatic Schema Mapping for Taxonomy-based Peer-to-Peer Systems" (joint work with Carlo Meghini).

October 2002 – April 2004

ERCIM fellowship for postdoctoral studies at ISTI-CNR (Italy) and VTT (Finland).

Sep 2001 – Sep 2002.

Maria Michael Manasaki legacy's fellowship (awarded to the best graduate student of Computer Science department of the University of Crete, once a year).

June 1992 – October 1997 and December 1999 – September 2002

Fellowship from FORTH-ICS.

Organizer of Nationals and International Events

- Διαδικτυακή Ημερίδα Πληροφοριακά Συστήματα Τεκμηρίωσης Επιστημονικής Έρευνας στις Ανθρωπιστικές και Κοινωνικές Επιστήμες (One Day Workshop "Information Systems for Documenting Scientific Research in the Humanities and Social Sciences"), 23 Σεπτεμβρίου 2020, Διοργάνωση: Κέντρο Πολιτισμικής Πληροφορικής ΙΤΕ και ΚΕΜΕ του Πανεπιστημίου Κρήτης.
- Local organizer of the EUDAT Summer School on Research Data Management (July 3-7, 2017) at FORTH-ICS
- Responsible from FORTH-ICS, for the co-organization of the RDA-Europe / BlueBRIDGE Datathon on Fisheries and Aquaculture, 15-16 June 2017, Heraklion, Crete, Greece
- Program Co-Chair and Local Organizer of the 3rd MUMIA Training School, a five days long summer school with 13 internationally well-known lecturers from 9 European countries, and more than 50 students from 17 European countries that took place at the premises of FORTH (July 21-25, 2014).
Ιστοσελίδα: <http://www.mumia-network.eu/index.php/3rd-training-school-lecturers>

- Co-Organizer and Speaker of the the APARSEN Workshop “Long term Preservation of Digital Material and the APARSEN Network of Excellence” , 21 PanHellenic Conference of Academic Libraries, Oct 18, 2012, University of Piraeus. Πανελλήνιο Συνέδριο Ακαδημαϊκών Βιβλιοθηκών, Πέμπτη 18 Οκτωβρίου 2012, Πανεπιστήμιο Πειραιά
- Co-Organizer and Program Committee Co-Chair of the 1st International Workshop on Peer-to-Peer Computing and Databases (P2P&DB 2004) Heraklion, Greece, March 14, 2004.

Tutorials and Seminars

- **Υπηρεσίες Πρόσβασης σε Σημαιολογικά Δεδομένα**, ομιλία στη Διαδικτυακή Ημερίδα Πληροφοριακά Συστήματα Τεκμηρίωσης Επιστημονικής Έρευνας στις Ανθρωπιστικές και Κοινωνικές Επιστήμες, 23 Σεπτεμβρίου 2020, Διοργάνωση: Κέντρο Πολιτισμικής Πληροφορικής ΙΤΕ και ΚΕΜΕ του Πανεπιστημίου Κρήτης
- **Πόσο μπορεί να αλλάξει η ζωή μας από την Ολοκλήρωση Ανοικτών Δεδομένων;**, ομιλία στο Campus Party – Digital Edition (Greece), 9 Ιουλίου 2020, <https://greece-digital.campus-party.org/>
- **Προοπτικές από την Καλή Διαχείριση και Ολοκλήρωση Ανοικτών Δεδομένων**, Ημερίδα Ανοικτά Δεδομένα και GDPR, Οργάνωση: Ινστιτούτο Επιμόρφωσης (ΙΝ.ΕΠ.) του Εθνικού Κέντρου Δημόσιας Διοίκησης και Αυτοδιοίκησης (ΕΚΔΔΑ), 16 Δεκ 2019, Ηράκλειο, Κρήτης
- **Προοπτικές από την Καλή Διαχείριση και Ολοκλήρωση Δεδομένων**, 1η Ερευνητική Συνάντηση του ΚΕΜΕ-ΠΚ, Ρέθυμνο, 26-27 Μαΐου, 2018
- **Semantic Integration in the Marine Domain and Beyond**, Tutorial at EUDAT Summer School on Research Data Management (3-7 Ιουλίου 2017) στο ΙΤΕ-ΙΠ (<https://www.eudat.eu/eudat-summer-school>)
- **Towards Large Scale Semantic Integration of Data for Virtual MultiModal Museums**, H2020-CS8-CSA- Virtual Multi-Modal Museum (ViMM), TA4 WGs meeting, Heraklion, 24/11/2017
- **Semantic Integration of Marine Data**, BlueBRIDGE Webinar, June 28, 2017 (<https://www.youtube.com/watch?v=oqPpnQamoLI&feature=youtu.be>)
- **Πληροφοριακά Συστήματα - ανακτώντας πληροφορία και γνώση στον παγκόσμιο ιστό**, Ημερίδα Τμήματος Επιστήμης Υπολογιστών για Μαθητές Λυκείων (2/2/2017)
- **Semantic Integration of Data**, ITN-DCH (Initial Training Network for Digital Cultural Heritage) summer school 2016 (collocated with Computer Graphics International 2016 - CGI'16), Heraklion, Crete, Greece, June 27, 2016
- **Exploratory Search through Preference-enriched Faceted Search**”, Invited Seminar given in the Departement Informatique de Blois, Universite de Tours Francois Rebelais, Blois, France, April 15, 2015 (visit April 14-April 16, 2015)
- **Πληροφοριακά Συστήματα - ανακτώντας πληροφορία και γνώση στον παγκόσμιο ιστό**, Ημερίδα Τμήματος Επιστήμης Υπολογιστών για Μαθητές Λυκείων (3/4/2015)

- **Bridging the Web of Documents with the Web of Data at Search Time**, 3rd MUMIA (Multilingual and Multifaceted Interactive Information Access, ICT Action COST IC 1002), Training School, July 21-25, 2014, Heraklion, Greece
- Responsible for producing training material (slides, exercises, video lectures) for the APARSEN summer school (advanced practitioner course) that took place in Vienna 7-11 July 2014. The same role for the training day of APARSEN on “Usability and Accessibility” at Florence, Sept 17-18, 2014
- Invitation to be tutor at: *Transistor’2009*, Workshop on Preservation and Post-Production, May, Prague (<http://transistor.ciant.cz/2009/>), not accepted due to scheduling conflicts
- **“A Case Study of Long-Running Business Processes: Digital Information Preservation”**, First SSME Workshop and Supper School “The Business Process in the Science of Service”, Heraklion, Crete, Greece, June 2, 2007.
- **“Knowledge Management in Digital Preservation: The CASPAR Experience”**, Event: DPE (Digital Preservation Europe), Nov. 23, 2006, Glasgow, UK.
- **“New Advances in Taxonomies and Taxonomy-based Information Sources”**, Institut d’Informatique, University of Namur (F.U.N.D.P.), April 26, 2004.
- **“The Compound Term Composition Algebra”**, VTT Technical Research Centre of Finland, September 5, 2003.
- **“The Compound Term Composition Algebra and the Ostensive Automatic Schema Mapping”**, University of Helsinki, Finland, August 21, 2003 (invited by Prof. Heikki Mannila).
- **“Mediators over Ontology-based Information Sources and Extended Faceted Ontologies”**, Istituto di Scienza e Tecnologie della Informazione [ISTI] - Consiglio Nazionale delle Ricerche [CNR], Pisa, Italy, October 2002.
- **“Mediators over Ontology-based Sources and Democratic Result Fusion”**, Meme Media Lab, Department of Electrical Engineering - University of Hokkaido, Japan, August 2001.

Selected Demonstrations

- **Large-scale Data Linking and Integration**, One of the four innovations of FORTH that were selected for presentation at Euroscience Open Forum Trieste, ESOF 2020
- **Towards Global Scale Semantically Integrated Data**, Presentation and demonstration at the visit at FORTH of Dr. Li Meng, Vice Minister of Science and Technology of China, and the Chinese delegation, FORTH, May 19, 2018.

Service and Committee Participation

- **Computer Science Department, University of Crete**
 - Representative of the Computer Science Department in the Special Account for Research Grants (EAKE) of the University of Crete (Feb 2018- today)
 - Member of the Undergraduate Studies Committee (2013-2014, 2016-2018, 2020-today)

- Member of the Internal Evaluation Team (OM.E.A) of the Department (2018- today)
- Chair of the Safety and Health Committee (2013-2020)
- Member of the Graduate Studies Committee (2010-2012, 2018-2020)
- Representative of the Assistant Professors in the University Senate of the Faculty of Sciences and Engineering , 2008-2009
- Deputy Scientific Responsible of the Student Internship Program (2009-2012)

Other Contributions to the Department and the University

- Coordinator of the Clarity and Open Data Management Team of the University of Crete (Decision of the 396th / 01-11-2018 Meeting of the Senate of the University of Crete), 17/12 / 2018 - 16/12/2020
 - The team completed a round of work that lasted about two years. During that period, it recorded the data held by the University, it characterized them, instituted the relevant management bodies and procedures, issued the relevant formal decision (about the recording and characterization of the data it holds), and installed and customized an open data catalog that was made public on 18/10/2019 ([http:// opendata.uoc.gr/](http://opendata.uoc.gr/))
- Coordinator of the Information Disclosure Process (Process No 6) of the University of Crete's Internal Quality Assurance System (Dec 2019 – now)
- Representative of the University of Crete to the Working Group on Digital Skills and Competences of the Ministry of Education, Research and Religious Affairs (July 2017- now)
- Coordinator of the Open Data Working Group of the University of Crete (26/6/2017-now)
- Technical coordinator of the project for designing and implementing the new web site of the Computer Science Department of the University of Crete that took place the period Sept 2016 –April 2017 which became the official web site of the Department on March 2017 (that relies on content management system build from scratch in a voluntary basis with students).

Memberships to National and International Committees

- **Executive Committee Member of the ERCIM** (the European Research Consortium for Informatics and Mathematics, Sept 2018-today)
- **Program Committee Member of the following international and national conferences:**
 - 5th International Workshop on Big Data Visual Exploration and Analytics, BigVis 2022
 - 12th Hellenic Conference on Artificial Intelligence (SETN 2022), Sept 7-9, 2022, Corfu, Greece
 - 44th European Conference on Information Retrieval (ECIR 2022), 2022
 - 25th International Conference on Theory and Practice of Digital Libraries (TPDL), 2021
 - 43rd European Conference on Information Retrieval (ECIR 2021), Lisbon, April 2021
 - 14th International Conference on Metadata and Semantics Research (MTSR'20), Nov 30- Dec 4, 2020
 - 11th Hellenic Conference of Artificial Intelligence, Sept 2020, Athens, Greece
 - 24th International Conference on Theory and Practice of Digital Libraries (TPDL), Lyon, France, August 25-27, 2020.
 - 14th International Workshop on Information Search, Integration and Personalization, Madrid, Spain, June 2020.

- Post-proceedings of the 13rd International Workshop on Information Search, Integration and Personalization (ISIP'2019)
- 42nd European Conference on Information Retrieval (ECIR 2020), Lisbon, April 2020
- 13th International Conference on Metadata and Semantics Research (MTSR'19), Guglielmo Marconi University in Rome, Italy, Oct. 28-31, 2019
- 23rd International Conference on Theory and Practice of Digital Libraries (TPDL), Oslo, Norway, September 9-12, 2019.
- The 13rd International Workshop on Information Search, Integration and Personalization (ISIP'2019), May 2019, Heraklion Crete
- 2nd Intl. Workshop on Big Data Visual Exploration and Analytics (BigVis 2019)
- 41st European Conference on Information Retrieval (ECIR 2019)
- 22nd International Conference on Theory & Practice of Digital Libraries (TPDL2018)
- 5th International Workshop on Exploratory Search in Databases and the Web (ExploreDB2018), collocated with SIGMOD 2018
- 40th European Conference on Information Retrieval [<http://www.ecir2018.org/>], which will be held in Grenoble, France, between March 26 and 29, 2018
- International Workshop on Big Data Visual Exploration and Analytics (BigVis 2018)", satellite workshop of (EDBT/ICDT 2018).
- 21st International Conference on Theory & Practice of Digital Libraries (TPDL2017)
- 4th International Workshop on Exploratory Search in Databases and the Web (ExploreDB2017)
- 39th European Conference on Information Retrieval, ECIR 2017
- 25th ACM International Conference on Information and Knowledge Management (CIKM 2016), October 24-28, 2016, Indianapolis, United States
- 4th International Workshop DChanges 2016, Vienna, Austria
- 20th International Conference on Theory and Practice of Digital Libraries (TPDL'2016), Sept 5-9 2016, Hannover, Germany
- 8th International Conference on Knowledge Engineering and Ontology Development (KEOD'16), Nov. 9-11 2016, Porto, Portugal
- 9th International Conference on Metadata and Semantics Research (MTSR'16), Nov 22-25 2016, Rome, Italy
- 3rd International Workshop on Exploratory Search in Databases and the Web (ExploreDB), June 26, 2016, San Francisco (in conjunction with SIGMOD/PODS 2016).
- 9th Hellenic Conference on Artificial Intelligence (SETN 2016), May 18-20, 2016, Thessaloniki, Greece
- 3rd International Workshop on (Document) Changes: modeling, detection, storage and visualization, DChanges 2015, Part of ACM DocEng 2015
- 19th International Conference on Theory and Practice of Digital Libraries, TPDL'15
- Special Track on Open Repositories, Research Information Systems and Data Infrastructures at the 9th International Conference on Metadata and Semantics Research (MTSR'15) (<http://www.mtsr-conf.org/>)
- 2nd International Workshop on Exploratory Search in Databases and the Web (ExploreDB), in conjunction with SIGMOD/PODS 2015.
- 37th European Conference on Information Retrieval, ECIR'15

- The 3rd Open Interdisciplinary MUMIA Conference and 7th Information Retrieval Facility Conference (IRFC2014)
- Special Track on Open Repositories, Research Information Systems and Data Infrastructures at the 8th International Conference on Metadata and Semantics Research (MTSR'14) (<http://www.mtsr-conf.org/>).
- *2nd International Workshop on (Document) Changes: modeling, detection, storage and visualization*, DChanges 2014, Part of ACM DocEng 2014
- Senior PC Member, Digital Libraries 2014, ACM/IEEE Joint Conference on Digital Libraries (JCDL 2014) International Conference on Theory and Practice of Digital Libraries (TPDL 2014)
- 1st International Workshop on Exploratory Search in Databases and the Web, ExploreDB 2014 (@EDBT, Athens 2014)
- *36th European Conference on Information Retrieval*, ECIR'14
- *1st International Workshop on (Document) Changes: modeling, detection, storage and visualization*, DChanges 2013, Part of ACM DocEng 2013.
- *7th International Conference on Metadata and Semantics Research*, MTSR'13.
- *6th Information Retrieval Facility Conference*, IRFC'13.
- *International Conference on Theory and Practice of Digital Libraries 2013*, TPDL 2013.
- *International Workshop on Integrating IR technologies for Professional Search*, part of ECIR 2013.
- *2nd Conference on Information Technologies for Performing Arts, Media Access and Entertainment*, ECLAP 2013.
- *12th IASTED International Conference on Artificial Intelligence and Applications*, AIA 2013.
- *Information Retrieval Facility Conference*, IRFC 2012.
- 1st Conference on Information Technologies for Performing Arts, Media Access and Entertainment, ECLAP 2012.
- *5th International Conference on Metadata and Semantics Research*, Special Track on Metadata & Semantics for Open Access Repositories & Infrastructures, MTSR'12, Cadiz, Spain.
- *4th International IRF (Information Retrieval Facility) Conference*, July, IRF 2011.
- *5th International Conference on Metadata and Semantics Research*, Special Track on Metadata & Semantics for Open Access Repositories & Infrastructures, MTSR'11.
- *International Conference on Artificial Intelligence and Applications*, AIA'2010, Innsbruck, Austria, February 2010.
- *International Conference on Web Information Systems and Mining*, WISM'2009, Shanghai, China, November 2009.
- *5th European Semantic Web Conference*, ESWC'08, Tenerife, Spain, June 2008.
- *International Conference on Artificial Intelligence and Applications*, AIA'2008, Innsbruck, Austria, February 11-13, 2008.

- *3rd International Workshop on Dynamic Taxonomies and Faceted Search, FIND'08 (at DEXA'2008)*, Torino, Italy, September 2008.
 - *7th Hellenic Data Management Symposium, HDMS'08*, Heraklion, Greece, July, 2008
 - *12th Pan-Hellenic Conference of Informatics, PCI'2008*, Samos, Greece, August 2008.
 - *2nd International Workshop on Dynamic Taxonomies and Faceted Search, FIND'07 (at DEXA'2007)*, Regensburg, Germany, September 3-7, 2007.
 - *International Conference on Artificial Intelligence and Applications, AIA'2007*, Innsbruck, Austria, February 12-14, 2007 (και πρόεδρος μια συνεδρίας)
 - *5th International Semantic Web Conference, ISWC'2006*, Athens, GA, USA, November 5-9, 2006.
 - *4th International Semantic Web Conference, ISWC'2005*, Galway, Ireland, Nov. 6-10, 2005.
 - *4th Hellenic Data Management Symposium, HDMS'05*, Athens, Greece, Aug. 25-26, 2005.
 - *3rd International Semantic Web Conference, ISWC'2004*, Hiroshima, Japan, Nov. 7-11, 2004.
 - *3rd Hellenic Data Management Symposium, HDMS'04*, Athens, Greece, June 28-29, 2004.
- **Session Chair at the Conferences**
 - Invited (by Prof. Athman Bouguettaya) to chair a session at WISE'2011 (Sydney, Australia, Oct. 2011). Declined due to other obligations.
 - *Extended Semantic Web Conference, ESWC'2010, Heraklion, Crete, Greece, June 2010*
 - *International Conference on Databases and Expert System Applications, DEXA'2007*, Regensburg, Germany, September 2007.
 - *International Conference on Artificial Intelligence and Applications, AIA'2007*, Innsbruck, Austria, February 12-14, 2007.
 - *4th Hellenic Conference on Artificial Intelligence, SETN-2006*, Heraklion, Crete, May 2006.
- **External Reviewer**
 - Member of the Editorial Board of the Special Issue on “Expressive Natural Language Interfaces for the Semantic Web” of the Semantic Web journal, Oct 2016
 - Guest member of the editorial team of the special issue of Marine Geology Data (2015) of the journal Earth Sciences (ISSN:2328-5974)
 - Senior Associate Editor of the Data Science Journal (<http://dsj.codataweb.org/>), International Council for Science (ICSU), 2008-2011
 - Reviewer to several international conferences and journals
 - **Reviewer of Research Proposals**
 - External reviewer of the third project call within the thematic programme “Information and Communication Technology” of the Vienna Science and Technology Fund (WWTF), 2018

- Ad honorem reviewer of the Chilean National Science and Technology Commission (CONICYT - Chile), July 2017

Systems Design and Development

Several research results have led to innovative tools and systems designed and developed in collaboration mainly with students that I have supervised. More information and links are available at:

<http://www.ics.forth.gr/~tzitzik/software.html>.

- **2007-2020**

Exploratory (Web) Searching

- **Elas4RDF**: Keyword search over RDF, First release: 2020
- **X-Search**: Semantic Post-Processing of Search Results. First release: 2013
- **Hippalus**: Preference-Enriched Faceted Exploration. First release: 2013
- **IOS**: A family of novel services for exploratory search. First release: 2012
- **Mitos**: A Web Search Engine (with emphasis on exploratory search). First release: 2007
- **StellaSearch**: A Meta Search Engine over Google offering real time results clustering. First release: 2009
- **Flexplorer** : A general purpose API for supporting exploratory search. First release: 2009
- **Sofokles**: A tool for evaluating natural language stemmers. First release: 2008

Semantic Data Management

- **3D LOD**: Interactive 3D Visualization of the LOD Cloud. First release 2016
- **LODSyndesis**: A Suite of Indexes and Services for Connecting and Exploiting Large in Number Linked Datasets. First release 2016
- **SPARQL-LD**: An extension of SPARQL 1.1 Federated Query that allows to use in the SERVICE operator any Web resource (URI/IRI) containing RDF data. First release 2016
- **X-Link**: A configurable, Linked Data-based, Named Entity Extraction tool. First release 2014
- **MatWare**: Tool for automating the creation of Semantic Warehouses. First release 2014
- **Bnodeland** (the land of blank nodes): Compare RDF Graphs with Bnode Matching! First release 2012. Also a generator of synthetic data. First release 2014
- **RIMQA** (RDF Instance Migration Quality Assistant): A tool for quality management after schema migration. First release: 2012.
- **StarLion**: A tool for visualizing RDFS ontologies (with emphasis on top-K diagrams and on exploration services). First release: 2008

Digital Preservation (tools and systems)

- **Epimenidis**: Automated Reasoning for Digital Preservation. First release 2013
- **PreScan**: Automated extraction of file-embedded metadata from file systems. First release: 2008

- **GapManager:** A dependency management system for the preservation of digital objects. First release: 2008
- **2005-2007:**
 - SWKM: Participation to the development of the SWKM (Semantic Web Knowledge Middleware) platform for managing RDF schemas and data
- **2003-2004:** Scientific and technical manager of the two-term project “FASTAXON: A system for FAST (and Faceted) TAXONomy design” of the Helsinki University of Technology (HUT). FASTAXON published under the VTT Open Source License.
- **1998-1999:** Design and implementation of *GERAKI*, an integrated information system for managing military data of Greek Air Force Units. It is a network application which supports all processes of the Military Office and the Office of Public Relations at 126 Combat Group (Heraklion). Information: Commander's Office at 126 Combat Group (tel. +30 2810 346 746).
- **1998:** Design and implementation of *REFEREE*, an information system for sport referee organisations. This application has been installed in the Football Referee Group of Heraklion (6 Piniou St, Heraklion).
- **1995:** Design and implementation of *IPOKRATIS*, an information system for doctors. This application has been installed to clinics of Heraklion.
- **1993:** Design and implementation of *DOMENICUS* hypermedia engine. *DOMENICUS* has been used for a prototype electronic presentation of the painting exhibition "From El-Greco to Cezzane" held in the National Gallery of Athens in 1992.

Datasets

Publicly available datasets for research purposes, created/maintained under my supervision

- CS563QA-Evaluation-Collection, A collection for evaluating Question Answering systems, URL: <http://islcatalog.ics.forth.gr/dataset/cs563-qa-an-evaluation-collection-for-question-answering>, Creation date: July 2019
- FRUCE (Finding Relevant User Comments Evaluation Collection), a collection for evaluating the retrieval of user reviews/comments about hotels, URL: , <http://islcatalog.ics.forth.gr/dataset/fruce-v2>, Creation date: Oct 2018
- Διάφορες οντολογίες, όπως η MarineTLO (<http://www.ics.forth.gr/isl/MarineTLO>)

Student Supervision

<i>Role</i>	<i>Completed</i>	<i>Ongoing</i>
a) Supervisor of PhD students	3	1
b) Member of the Advisory Committee of PhD Theses (beyond a)	4	1
c) Supervisor of MSc students	26	1
d) Supervisor of Diploma Theses	52	6
<i>Total</i>	85	9

- **Supervisor of PhD Theses (3 completed, 1 ongoing)**
 1. Maria-Evaggelia Papadaki (ongoing)
 2. Michalis Mountantonakis (2020)

Title: Services for Connecting and Integrating Big Number of Linked Datasets

Winner of the 2020 SWSA (Semantic Web Science Association) **Distinguished Dissertation Award**

3. Pavlos Fafalios (2016)

Title: Exploiting Linked Data for Entity-Centric Exploratory Search

4. Panagiotis Papadakos (2013)

Title Interactive Exploration of Multidimensional Information Spaces with Real-time Preference Elicitation

- **Member of the Advisory Committee of PhDs** (*beyond the supervised ones*) (**4 completed, 1 ongoing**)

1. Alex Shevtsov (2020-)

2. Dimitris Pritsos (2019)

Dept. of Information and Communication Systems Engineering, University of the Aegean

Title: Open-set Web Genre Identification

3. Vassilis Efthimiou (2017)

Title: Scalable Entity Resolution

4. Y. Georgalis (2013)

Title: Architecture, methods and tools for Environments of Ambient Intelligence

5. Haridimos Kondylakis (2010)

Title: Ontology Evolution in Information Integration Systems

- **External Evaluator of PhD Theses** (3)

1. External Evaluator of the PhD Dissertation of Mohamed Nadjib Mami, entitled “Strategies for a Semantified Uniform Access to Large and Heterogeneous Data Sources“, Universitat Bonn, Germany, Dec 2020.

2. International Opponent of the Ph.D. candidate Anastasia Lantseva, ITMO University, St Petersburg, Russia, 2020

3. External Evaluator of the Doctoral Dissertation: Luca Frosini, Transactional REST Information System for Federated Research Infrastructures enabling Virtual Research Environments, Universita di Pisa, Dipartimento di Ingegneria Dell’ Informazione, May 2019

- **Supervisor of MSc Students** (**26 completed, 1 ongoing**)

1. Christos Nikas (2020-)

Title: Multi-perspective Keyword Search over RDF Datasets

2. Kostas Manioudakis (2020)

Title: Faceted Search with Object Ranking and Answer Size Constraints

3. George Kadilierakis (2020)

Title: Keyword Search over RDF using Document-centric Information Retrieval Systems

4. Lefteris Dimitrakis (2019)

Title: Open Domain Question Answering over Hundreds of Linked Open Datasets

5. Konstantinos Sgontzos (2019)

Title: On Achieving High Quality User Reviews Retrieval in the Context of Conversational Faceted Search

6. Anna Kokolaki (2018)

Title: “Facetize: An Interactive Tool for Cleaning and Transforming Datasets for Facilitating their Exploration

7. Thanos Yannakis (2017)

- Title «SPARQL extensions for Linked Data»
8. Maria-Evaggelia Papadaki (2017)
Title: 3D Visualization of Linked Datasets
 9. Panagiotis Lionakis (2017)
Title: Exploratory Search of RDF Datasets with Geospatial Information
 10. Vaggelis Kaligiannakis (2016)
Title: Caching for Client-side Browsing of SPARQL Endpoints
 11. Michalis Mountantonakis (2016)
Title: «Measuring the Degree of Connectivity of the LOD Cloud
 12. Nikos Anyfantis (2016)
Title: Mappings Management for Ontology-based Integration
 13. Manolis Baritakis (2016)
Title: Using Linked Data for Named Entity Extraction and Disambiguation
 14. Yannis Kargakis (2013)
Title: Dependency Management for Digital Preservation
 15. Ioannis Kitsos (2013)
Title: Scalable entity-based summarization of web search results using MapReduce
 16. Christina Lantzaki (2013)
Title: Matching Blank Nodes in RDF/S Graphs
 17. Pavlos Fafalios (2013)
Title Indexes and Algorithms for Scalable and Flexible Instant Overview Search
 18. G. Tsamis (main supervisor: Martin Doerr, 2012)
Title: A 3D Tool for Schema Mapping
 19. Nikos Manolis (2011)
Title: Interactive Exploration of Fuzzy RDF Knowledge Bases
 20. M. Psaraki (2011)
Title: Compact Archiving of Multiple (and possibly Versioned) RDF/S Triple Sets
 21. M. Kabouraki (2011)
Title: Managing Resource Description Specificity under Ontology Schema Evolution
 22. Y. Marketakis (2010)
Title: Conceptual Modeling and Tools for Digital Preservation
 23. M. Papadakis (2010)
Title: Set Cover-based Results Caching for Best Match Retrieval Models
 24. N. Armenatzoglou (2010):
Title: Efficient Faceted Exploration Services for Big Volumes of Information
 25. Martin Krčmář (2009)
Title: Visualization of RDF Deltas, co-supervision with Prof. Pavel Smrz (Brno University of Technology, Czech Republic),
 26. S. Kopidaki (2009),
Title: Results Clustering in Web Searching
 27. D Zeginis (2008)
Title: «On Computing Deltas of RDF/S Knowledge Bases, co-supervision with Prof. V Christophides

- **Supervisor of Diploma Thesis** (58: 54 completed, 6 ongoing)

1. Θεόδωρος Πατσάκης (2020-)
2. Οδυσσεάς Ζυδιανάκης (2019-)
3. Γιώργος Πετρόπουλος (2019-)
4. Αντώνιος Σκλάβος (2019-)
5. Στυλιανός Ομήρου, Design and implementation of a web platform for sharing cooking-related information, 2020
6. Ευάγγελος Μαλιαρουδάκης (2020)
7. E. Smyrnakis, Crowdsourcing Web Application using Gamification to Detect Verbal Abuse, 2020
8. E. Chroniari, Digital Marketing: Search Engine Optimization, 2020
9. Olympia Xanthaki, Design and implementation of a Comic Book Reader, 2020
10. Evaggelia Petayraki, Design and implementation of a Parametric Game for Educational Purposes, 2020
11. Antrei Kavros, Design of a Phonetic Algorithm for the Greek Language, 2019
12. Michalis Panagiotou, Implementation of a System for Recording and Visualizing the Traffic Incidents in the city of Heraklion, 2019
13. Stelios Karakoudis, Design of a System for Recording and Visualizing the Traffic Incidents in the city of Heraklion, 2019
14. Victor Lecompte, Give: Design and Development of a Work Exchange Platform, 2019
15. Dimitris Giouzoulis, Design and Implementation of a question answering system over Relational Databases through Spoken Dialogue V2”, 2019
16. Anastasios Karamesousis, “Design and Implementation of a question answering system over Relational Databases through Spoken Dialogue”, 2019
17. Evaggeli Patsouri, Online application for monitoring a patient's asthma and estimating possible exacerbation due to weather conditions, 2018
18. George Giakoumis, Open Data Catalog for the University of Crete, 2018
19. Agamemnon Fakas, Android Event Publisher, 2018
20. Miranta. Mpati, FASTAG- File Manager with Tags for Android, 2018
21. Em. Filinis, KoDesign and Implementation of an Andoid Application – Tourist Guide for Heraklion City, 2018
22. N. Mirtakis, Keyword Search over RDF, 2018
23. M. Tsifountidou, Gamification of the CSD Curriculum, 2018
24. P. Paraschidis, Nutriware: A Information Systems for Dietetics (2017)
25. D. Nikas, Android Help application for First Aid diagnosis treatment and accident detection emergency message dispatcher, 2017
26. K. Manioudakis, Implementation of a CMS for the Website of the Department, 2017
27. K. Sgontzos, Extending Hippalus with multicore/gpgpu-based triplestores, 2016
28. L. Dimitrakis, Extension of Hippalus for using it as Voting Advice Application, 2016
29. E. Giannopoulos, Design and implementation of Android Application for multiple-choice tests, ongoing, 2016
30. G. Kantilierakis, Design and implementation of Android Application for multiple-choice tests, 2016
31. P. Papamichail, Design and implementation of a E-learning system as a Role Playing Game, 2016
32. G. Nikitakis, Faceted Search with Like and Dislike Preferences 2015
33. Y. Moutafis, Development of a Web-based GIS Application with open source tools, 2015
34. M. Stratigi, Evaluation of greeklish to greek translators, 2015
35. A. Mavroulakis, Development of tools for transforming and loading data to system Hippalus, 2015

36. Th. Yannakis, Development of a Generator of Synthetic RDF Data with emphasis on the morphology of Blank Nodes, 2014
 37. I. Siopis, Design and Implementation of a Website for the Department, 2014
 38. M. Mparitakis, Entity Mining using Linked Data, 2014
 39. M. Mountantonakis, Design and Implementation of Metrics for Semantic Warehouses, 2014
 40. I. Zidianaki, Design and Implementation of a System for Civil Protection accessible through Smart Phones, 2013
 41. D. Zafiri, A System for Browsing RDF/S data, 2012
 42. M. Hickson, Design and Development of a system for Browsing Movies using Semantic Web Technologies with Emphasis on Clustering Services, 2011
 43. Y. Kargakis, Design and Development of a system for Browsing Movies using Semantic Web Technologies with Emphasis on Similarity Functions, 2011
 44. E. Souris, Design and implementation of the System “FilmCovery”, 2011
 45. N. Klidis, Design and Development of the System “FilmCovery”, 2011
 46. S. Tsironis, Extensions of the System “Diathesis”, 2010
 47. D. Kastrinakis, Scalable Autocompletion Services for Web Search Engines, 2010
 48. D. Pontikis, Design and Implementation of a Personal Search Engine, 2010
 49. Y. Kitsos, Dynamic Entity Mining in Web Searching, 2010
 50. D. Komitopoulou, A System for Transforming Ontological Metadata, 2010
 51. K. Sidiropoulos, Design and Implementation of a Web Crawler, 2009
 52. S. Zabetakis, Visualization of RDF Schemas, 2009
 53. K. Tsintaris, Design and Implementation of a Web Crawler for Mitos, 2009
 54. T. Tzanakis, Automatic file scanner for Digital Preservation, 2009
 55. Y. Marketakis, Dependency Management for Digital Preservation, 2008
 56. M. Tavalis, K-means based Results Clustering, 2007
 57. A. Pitsiladis, A System for Resource Management for the Department of Computer Science, 2007
 58. A. Leonidis, A System for Visualizing Ontologies, 2007
- Technical manager and coordinator of the two-term seven-student project FASTAXON of the Helsinki University of Technology (HUT). Group members: Mika Hakkarainen, Pekka Korhonen, Tero Leppanen, Esko Simpanen, Hannu Tornroos, Pekka Uusitalo and Pentti Vanska September. Duration: September 2003 - April 2004.
 - Co-supervisor (with Dr. Anastasia Analyti) of the diplomatic thesis of Costas Terzakis entitled “VoteRank Metasearcher”, Department of Computer Science, University of Crete, March 2003 - September 2003 .

End of Curriculum Vitae