

IOANNIS (YANNIS) VELEGRAKIS

CURRICULUM VITAE

Department of Information and Computing Sciences
Utrecht University
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Current Positions and Roles

Professor of Computer Science, Chair of Very Large Data Management, and Head of the Data Intensive Systems Group at Utrecht University [since March 2019]
Faculty Member of the Department of Information Engineering and Computer Science at the University of Trento (currently part-time) [since Sep. 2005]
Board member of the Netherlands Research School for Information and Knowledge Systems (SIKS) [since March 2021]
Board member of the Extending Database Technology (EDBT) Association [since February 2020]
Representative of Utrecht University in the Data Science Platform Netherlands (DSPN) [since February 2021]
Editorial Board of Systems and Prototypes in ACM SIGMOD Record [since July 2019]
Editorial Board of Springer International Journal on Data Semantics [since June 2011]
Associate Editor of VLDB [2022-2023]
Associate Editor of ACM SIGMOD Conference 2023 [since 2022]

Research Interests

Data Preparation, Data Curation, Big Data Understanding, Highly Heterogeneous Information Integration & Data Exchange, Big Data Quality, Knowledge Creation and Management, User-centric Querying Techniques for Massive Heterogeneous Datasets, Personalization & Recommendation, non-structured data Analysis, Graph Management, Semantic Web.

Biographical Information

Official Name: Ioannis Velegarakis
Citizenship: Canadian, Greek, Italian
Languages: English (Excellent), Greek (Excellent), Italian (Fluent), French (Basic), Dutch (Basic)

Professional Experience

Utrecht University, Netherlands [Mar. 2019 – today]
Professor, Chair on Very Large Data Management, Dep. of Information and Computing Sciences
University of Trento, Italy [Sep. 2005 – today]
Associate Professor, Dep. of Information Engineering & Computer Science
Huawei Technologies, European Research Center, Munich, Germany [May 2018 – Jul. 2018]
Visiting Researcher in AIOps
University of Paris-Sud (Paris-Saclay), France [Jan. 2018 – Jan. 2019]
Adjunct Member, LaHDaK Group, Laboratoire de Recherche en Informatique
University of Paris-Sud (Paris-Saclay), France [Jan. 2017 – Sep. 2017]
Visiting Professor, Jean D' Alembert Fellow, Laboratoire de Recherche en Informatique
University of California, Santa-Cruz, USA [Jun. 2007 – Sep. 2007]
Visiting Professor, Department of Computer Science
AT&T Labs - Research, USA [Sep. 2004 - Aug. 2006]
Technical Specialist, Researcher, Member of the Database Department.
IBM Almaden Research Center, USA [Jun. 2001 - Sep. 2001] & [May 2002 - Jul. 2002]
Summer Research Visitor
Department of Computer Science, University of Toronto, Canada [Sep. 1998 - Sep. 2004]
Research Assistant
IBM Toronto Lab, Center of Advanced Studies, Canada [Apr. 2001 - Sep. 2004]
CAS Member
MakNet Corporation, Toronto, Canada [May 2000 - Sep. 2000]
Technology Consultant

Department of Business Administration, CRETE D.A. College, Greece System Administrator	[Sep. 1996 - Jun. 1997]
Institute of Comp. Science, Foundation of Research & Technology, Greece Research Assistant	[Jun. 1994 - Jun. 1998]
System Administration Group, Comp. Center, University of Crete, Greece System Operator, Technical Consultant	[Sep. 1992 - Jun. 1994]

Education

Ph.D. in Computer Science, University of Toronto, Canada Dissertation: "Managing Schema Mappings in Highly Heterogeneous Environments". Supervisor: Renée J. Miller and John Mylopoulos	[2005]
M.Sc. in Computer Science, University of Crete, Greece (Summa cum Laude) Thesis: "Declarative Specification of Z39.50 Wrappers by using Description Logics". Supervisor: Vassilis Christophides and Panos Constantopoulos	[1998]
B.Sc. in Computer Science, University of Crete, Greece (Summa cum Laude) Thesis: "VRW: Creation, Modification and Production of data reports". Supervisor: Panos Constantopoulos	[1996]

Management Training

• Dealing with Inappropriate Behaviour	[2022]
• Managing from home	[2021]
• Grip on time for scientific staff (Efficient and Effective Time Management)	[2021]
• Unconscious Bias	[2020]
• Academic Leadership (for Full Professors)	[2019-2020]
• Active Bystander	[2020]
• Introductory Training for New Managers	[2019]
• Selection Committee (for Personnel Hiring)	[2019]

Qualifications, Honors, Achievements, Prizes and Awards

• Senior Qualification Research, Utrecht University	[2020]
• Jean d'Alembert Fellow, Université Paris-Saclay	[2017]
• Distinguished SIGMOD 2017 PC Member	[2017]
• WebDB 2017 Best Paper Award	[2017]
• French Qualification (for Full Professor)	[2015]
• Marie-Curie Fellow: International Reintegration Grant	[Feb. 2007 - Jan. 2009]
• IBM PhD Fellowship	[Sep. 2002 - Aug. 2004]
• IBM Center of Advanced Studies Fellowship	[Jan. 2001 - Jan. 2003]
• Top 8 papers of VLDB'03	[2013]
• University of Toronto Open Fellowship	[Sep. 1998 - Jan. 2001]
• Top 6 papers in ECDL99	[1999]
• Foundation for Research and Technology Graduate Scholarship	[Sep. 1996 - Jun. 1998]
• Foundation for Research and Technology Undergraduate Scholarship	[Jun. 1994 - Aug. 1996]

Keynotes, Invited Talks & Panels

- "Data Discovery & Pricing", Panel, European Big Data Value Forum, 2021
- "Data Preparation", Webinar, Focus Area Applied Data Science, Utrecht University, 2020
- "The Quest Towards a Schema Mapping Benchmark", Information and Computing Sciences Colloquium, Utrecht University, 2020
- "Finding Related Information through Exemplar Queries", Invited talk, CEDAR group, Ecole Polytechnique, 2017
- "Schema Mapping: From Generation to Evaluation", Invited Tutorial, 2017
- "Understanding Keyword queries over structured data", Invited talk, Université Paris-Saclay, 2017
- "On these wonderful views, their updatability and their use as a virtual linking tool", Invited talk, LaHDAK Seminar Series, Université Paris-Saclay, 2017
- "Ranking Query Results based on the Query Semantics and in the Presence of Linkage and Evolution", Keynote talk, International Workshop on Ranking in Databases (DBRank), in conjunction with VLDB, 2012
- "Updates: The Neglected Operations", Keynote talk, International Workshop on Databases, Information Systems and Peer-to-Peer Computing (DBISP2P), in conjunction with VLDB, 2008

Professional Affiliations, Memberships and Services

General Chair

VLDB - International Conference of Very Large Databases [2013]

Steering Committee Member:

ExploreDB – International Workshop on Exploratory Search in Databases and the Web [2018 - 2019]

WebDB - International Workshop on the Web and Databases [2013 - 2018]

Summer School Coordinator/Organizer

EDBT –Extended Database Technologies (EDBT) Summer School [2019]

Board Member

EDBT –Extended Database Technologies (EDBT) Association [2019-now]

PC Chair

EDBT – International Conference on Extended Database Technologies [2021]

SEA Data – Workshop on Search, Exploration, and Analysis in Heterogeneous Datastores [2020, 2021]

ExploreDB – International Workshop on Exploratory Search in Databases and the Web [2017, 2018]

IKC – International Keystone Conference [2015, 2017]

SMAP - Int. Workshop on Semantic and Social Media Adaptation and Personalization [2015]

SDSW - International Workshop on Surfacing the Big and the Social Web [2014, 2015]

WebDB - International Workshop on the Web and Databases [2012]

VLDB Tutorial Program - International Conference of Very Large Databases [2008]

DESWeb - International Workshop of Data Engineering Meets the Semantic Web [2010, 2011]

SWAE - International Workshop on Semantic Web Architectures for Enterprises [2008]

Vice Chair / Area Chair / Editorial Board

BigData – IEEE International Conference on Big Data [2020]

ICDE – International Conference on Data Engineering [2018]

ACM SIGMOD - International Conference on Management of Data [2022-2023]

VLDB - International Conference of Very Large Databases [2022-now]

Editorial Board

ACM SIGMOD Record (for Systems and Prototypes) [Jul. 2019 - now]

Springer International Journal on Data Semantics (Board Members) [Jun. 2011 - now]

Editor

International Journal on Semantic Web and Information System (Sp. Issue) [2015]

Elsevier International Journal of Computers & Electrical Engineering (Sp. Issue) [2017]

New Trends in Humanistic Informatics: Implementations and Applications [2017]

Program Committee Member

BigData - IEEE International Conference on Big Data [2015, 2016]

CIKM - ACM International Conference on Information and Knowledge Management [2008, 2009, 2014]

DBPL - International Conference on Databases and Programming Languages [2011, 2016]

EDBT - International Conference on Extended Database Technology [2010, 2011, 2014 - 2020]

ESWC - Extended Semantic Web Conference [2011]

ICDE – IEEE International Conference on Data Engineering [2006 - 2012, 2015 - 2018]

ICDE – IEEE International Conference on Data Engineering Lightning Talks [2018]

ICDT - International Conference on Database Theory [2012]

ICSOC - International Conference on Service Oriented Computing [2008, 2009]

ICT Open – Information and Communication Technologies Open Conference [2020]

ICTeSSH - International Conference on ICT enhanced Social Sciences and Humanities [2020-2021]

ICWE - International Conference on Web Engineering [2010]

MEDES - International Conference on Management of Digital EcoSystems [2019]

SIGMOD - International Conference on Management of Data [2005, 2007, 2011, 2017 - 2020]

SSDBM - Conference on Scientific and Statistical Database Management [2016]

VLDB - International Conference on Very Large Data Bases [2007 - 2010, 2015, 2017, 2019-2021]

WI - IEEE/WIC/ACM International Conference on Web Intelligence [2019]

WISE - International Conference on Web Information System Engineering [2006, 2007]

WWW - International World Wide Web Conference [2008]

ADBIS – East European Conference on Advances in Databases and Information Systems [2007, 2008, 2017]

----- [Workshops] -----

BDMR – International Workshop on Big Data in Motion and Big Data at Rest [2015]

CanDB - Canadian Database Research Workshop [2004]

CAST - Conversational Access to Data [2019]

CEDI – Spanish Workshop on Informatics [2015, 2016]

CrowdSearch - International Workshop on Crowdsourcing Web Search [2012]

DBPR - International Workshop on Big Data Processing – Reloaded [2016]

DIARCHON - International Workshop on Preservation of Evolving Big Data [2015]

HDMS - Hellenic Data Management Symposium [2008 – 2010, 2018]

InterDB - International Workshop on Database Interoperability [2006]

Yannis Velegrakis 3/13

JISDB - Jornadas de Ingeniería del Software y Bases de Dato	[2016 – 2017]
LEG – Int. Workshop on Advances in managing and mining large evolving graphs	[2019]
NoCoDa – International Workshop on Non-Conventional Data Access	[2012]
ODBASE – Int. Conf. on Ontologies, Databases, and Applications of Semantics	[2008, 2009]
OM - International Workshop on Ontology Matching	[2008 - 2010]
PIE - International Workshop on Processing Information Ethically	[2020]
SEDB - Italian Symposium on Advanced Database Systems	[2011, 2012]
SFDI - Workshop on Software Foundations for Data Interoperability	[2021]
SMAP - Int. Workshop on Semantic and Social Media Adaptation and Personalization	[2016]
SSDBM - Statistical and Scientific Database Management	[2016]
SWAE - International Workshop on Semantic Web Architectures for Enterprises	[2008]
SWIM - International Workshop on Semantic Web Information Management	[2011, 2012]
VLDB PhD Workshop	[2015]
WebDB - International Workshop on the Web and Databases	[2009, 2013, 2014, 2017, 2018]
WIDM - International Workshop on Web Information and Data Management	[2006, 2007]
WIRI - International Workshop on Challenges in Web Inf. Retrieval and Integration	[2006]
Xsym - International XML Database Symposium	[2005, 2007]

External Reviewer

CAISE - International Conference on Advanced Information Systems Engineering	[2020]
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Journal Reviewer

ACM SIGMOD Record (SIGRec)
ACM Transactions on Computational Collective Intelligence (TCCI)
ACM Transactions on Database Systems (TODS)
ACM Transactions on Data and Knowledge Engineering (DKE),
ACM Transactions on Management Information Systems (TMIS)
ACM Transactions on the Web (TWeb),
ACM Journal of Data and Information Quality (JDIQ)
Acta Informatica, Journal of Web Semantics (JWS),
Elsevier Information Systems Journal (IS)
Hindawi Publications (Hindawi)
International Journal on Semantic Web and Information Systems (IJSWIS)
IEEE Transactions on Knowledge and Data Engineering (TKDE)
IEEE Intelligent Systems Journal (ISJ)
Open Journal of Databases (OJDB)
Springer Data Mining and Knowledge Discovery (DAMI)
Springer Journal on Data Semantics (JDS)
Springer Knowledge and Information Systems (KIS),
VLDB Journal (VLDBJ)

Standards Committee Member

ANSI/NISO Z39.50 Standard CIMI Working Group	[Apr. 1997 - Jan. 1998]
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Awards Committees

GSNS Master Thesis Award, Utrecht University, Netherlands	[2020, 2021]
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Scientific Reviewer / Project Evaluator

Free University of Bozen/Bolzano Grants, Italy	[2014, 2018]
Fondazione Cassa di Risparmio di Padova e Rovigo, Italy	[2015]
University of Modena and Reggio Emilia Grants, Italy	[2014]
Natural Sciences and Engineering Research Council of Canada	[2006]

Hiring, Promotion and Program Evaluation Committees

Member, Evaluation Committee for the 6-year review of the Master and Bachelor Programs on Data Science (Technical University of Eindhoven and Tilburg University, Netherlands)	[2021]
Member, Senior Qualification – Research Committee, Utrecht University, Netherlands	[2021]
Chair, Selection Committee for an Assistant/Associate Prof Position, Utrecht University, Netherlands	[4 times, 2019 - 2022]
Member, Selection Committee for a Chair Position, Technical University of Eindhoven, Netherlands	[2020]
Member, Selection Committee for a Chair Position, University of Twente, Netherlands	[2019]
PhD & Post-doc Fellowship Committee, Hellenic Foundation for Research & Innovation (ELIDEK), Greece	[2019 - 2020]

Research Grants

Co-Coordinator: Technology prediction for Sustainable Development Investments	[2022]
Seed grant, AI Labs, Utrecht University	

- Coordinator: Improving Health Policy Research through Automated Knowledge Extraction from Regulatory and Reimbursement Reports** [2021]
Seed grant, Applied Data Science Focus Area, Utrecht University
- Participant: COVID Infection Analysis based on human movement** [2021-2022]
University of Trento Local Project, University of Trento
- Coordinator: Data Understanding through Flexible Querying** [2017]
Fellowship "Jean d' Alembert", Université Paris - Saclay
- Coordinator: Anomaly Detection in Multiple High Velocity Streams** [2016]
PhD Grant by Telecom Italia
- Local Coordinator: Antares: System Data Analysis** [2016]
Saidea Srl.: Analytics on system monitoring log for operation understanding and problem detection
- Coordinator: Data Analysis under Data Quality Issues** [2014]
PhD Grant by Telecom Italia
- Coordinator: Tweeter Analysis** [2014-2015]
Google Cloud Platform Funding: Methods to analyze tweets and generate personal user profiles using the Google cloud platform.
- Scientific Coordinator: KEYSTONE** [2013-2016]
EU COST Action: Coordination and Collaboration action on Keyword Search and related topics with a special focus on Big Data.
- Coordinator: Intolerance Knowledge Discovery** [2014]
ATHIRAT Srl.: Effective ways of using the SPARK, NUTCH and Hadoop Big Data technologies for the large-scale discovery and analysis of web documents related to some specific discipline and the creation of a domain knowledge as it is expressed in the documents.
- Coordinator: Trento Big Data** [2013-2014]
Association Trento RISE flagship project: Design and development of a Big Data analytics platform for the exploitation of the highly heterogeneous and voluminous Open Data that the public administration is making available online.
- Participant: Neurocloud** [2012-2013]
Informatica Trentina: Tools and techniques for the management of the huge neuroimaging data sets and the related experiments as a cloud service.
- Coordinator: Uniform Management of Data and Metadata** [2007-2009]
Marie Curie Actions, Reintegration Grant: Making metadata first class citizens through the development of management techniques for metadata in a way similar to those that already exist for data.
- Local Coordinator: Papyrus: Digital Libraries dynamically mined from News Archives** [2008-2010]
European Union STREP Project: Bridging the heterogeneity gap across disciplines by developing technologies that allow data in one discipline to be queried by experts that use queries expressed in their own, different discipline.
- Participant: OKKAM - Enabling the Web of Entities** [2008-2011]
European Union IP Project: Framework for providing persistent identifiers to Web objects and in general to the Internet of Things. Responsible for the query and maintenance of the large entity repository, and the management of the evolution that occurs naturally on the entities.

Education Grants

- EIT Digital Master on Data Science, University of Trento** [2018 - 2021]
Funds to coordinate the program on Data Science within the EIT Digital Master
- EIT Digital Kick-off, University of Trento** [2019]
Funding to organize a Business Challenge for all the new-coming EIT Digital Master School Students (~600 participants)
- EIT Digital Master, University of Trento** [2016 - 2019]
Funds to support the educational activities of the EIT Digital Master program in the areas of Embedded Systems, Media, HCI, Security & Privacy, Software Engineering, and Internet Technologies.

Administrative Roles

- Department of Computer and Information Sciences, Utrecht University, The Netherlands**
- Head, Utrecht Data Intensive Systems Lab [Mar. 2019 – now]
 - Department Representative, Data Science Platform Netherlands [Oct. 2020 – now]
 - Ambassador, Applied Data Science Program [2019 – now]
 - Board Member, Netherlands Research School for Information and Knowledge Systems (SIKS) [2019]
 - Department Representative, AI Coalition, Data Sharing Working Group [2019]
 - Master Thesis Award Committee [2020-2021]
- Department of Information Engineering and Computer Science, University of Trento, Italy**
- Coordinator, Data Science Technical Major of the EIT Digital Master Program [Jun. 2019 – May 2020]
 - Co-Founder & Coordinator, University of Trento Data and Information Management Research Group [Sep. 2006 – now]
 - Coordinator, Data & Knowledge Management Research Program [Sep. 2013 – now]

Coordinator, University of Trento Node, CINI Big Data Laboratory	[Sep. 2014 – 2019]
PhD School Executive Committee member	[May 2005 – Aug. 2010 & Mar. 2015 – Mar. 2019]
Coordinator, Trento EIT Digital MSc Program	[Jun. 2015 – May 2019]
MSc Selection Committee Member	[Sep. 2013 – Mar. 2019]
PhD School Selection Committee member	[Spring 2012]
PhD School Qualifying exam committee member	[Feb. 2008 – Aug. 2010]
Department Seminar Series Organizer	[2014 – now]
Teaching Coordinator of the Data and Knowledge Management area	[Sep. 2006 – Sep. 2009]
Local Coordinator of the European Master's in informatics	[Mar. 2007 – Mar. 2010]

Teaching Experience

Department of Information and Computing Sciences, Utrecht University, The Netherlands

Data Intensive Systems (~20 Students)	[2020- now]
Software Project (~8 Students)	[2019-2020]
National Government AI, Big Data Technologies Lectures (~50 Students)	[2018-now]
Data Mining (2 Guest Lectures, ~50 Students)	[2018]
Pattern Mining (1 Guest Lecture, ~55 Students)	[2018]
Data Analysis (4 Guest Lectures, ~135 Students)	[2018]
Human, Media and Technology (1 Guest Lecture, ~50 Students)	[2018]

Department of Engineering and Computer Science, University of Trento, Italy

Databases (~230 Students)	[2014 - now]
Massive Data Analytics / Data Mining (~80 Students)	[2013 - now]
Big Data and Social Applications (~70 Students)	[2014 - 2018]
Data and Information Integration (~30 Students)	[2009 - 2013]
Software Engineering (~150 Students)	[2012, 2013]
Web Programming (~150 Students)	[2009 - 2011]
Information Management and Integration (~20 Students)	[2007 - 2010]
Research Project in Data, Media and Knowledge (Individually Tutoring Students)	[2010]
Advanced Information Systems (~15 Students)	[2006 - 2008]
Organizational Information Systems (~25 Students)	[2005]

Department of Computer Science, University of Toronto, Canada

Database Management Systems (~150 Students)	[2002]
Database Management Systems – as TA (~150 Students)	[1999 - 2004]

Department of Computer Science, University of Crete, Greece

Information Systems – as TA (~25 Students)	[1996 - 1998]
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Department of Business Administration, CRETE D.A. College, Greece

Information Technology (~25 Students)	[1996, 1997]
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Massive Open Online Courses

- S. Aridhi and Y. Velegrakis, "Big Data for Smart Cities", IEEE EdX Course, 2016 (8.200 registered users on the first year).
<https://www.youtube.com/watch?v=HY4cr67NuK8>

Summer / Winter School Teaching

Data Quality for trusting the Extracted Knowledge, SIKS Course on Data Science: From Data Lakes to Knowledge Graphs, Online, Netherlands	[Sep. 2020]
Big Data Technologies for Smart Cities Data Exploitation & Exploration, IEEE European Summer School on Smart Cities, Trento, Italy	[Sep. 2017]
Taming Big Data: From management and curation to storage and analysis. Cuso Winter School, Champéry, Switzerland	[Feb. 2016]

Supervision

PhD Theses

Otto Vermeulen	[defense expected in 2025]
• Thesis on Reinforcement Learning for Traffic Optimization	
Duygu Islakoglu	[defense expected in 2026]
• Thesis on Knowledge Graphs	
Mahsa Ghanavati	[defense expected in 2026]
• Thesis on Data Curation	
Vahid Shahrivari	[defense expected in 2026]
• Thesis on Graph Analytics for Fraud Detection	
Enas Khwaileh	[defense expected in 2026]
• Thesis on Data Discovery	
Khosro Pakmanesh	[defense expected in 2025]
• Thesis on Data Localization	

Martin Brugnara	[defense expected in 2022]
• Thesis on Data Exploration	
Sivam Pasupathipillai	[2020]
• Thesis title: "Modern Anomaly Detection: Benchmarking, Scalability and a Novel Approach"	
Paolo Sottovia	[2019]
• Thesis title: "Information Extraction from Data"	
Daniele Foroni	[2019]
• Thesis title: "Putting Data Quality in Context"	
Cristian Consonni	[2019]
• Thesis title: "The Dao of Wikipedia. Extracting Knowledge from the structure of Wikilinks"	
Giulia Preti	[2019]
• Thesis title: "On the Discovery of Relevant Structures in Dynamic and Heterogeneous Data"	
Matteo Lissandrini	[2018]
• Thesis title: "Enabling Access to and Exploration of Information Graphs"	
Dimitra Papadimitriou	[2017]
• Thesis title: "Extraction and Exploitation of User Goals & Intentions for Querying and Recommendation"	
Davide Mottin	[2015]
• Thesis title: "Advanced Query Paradigms for the Novice User"	
Siarhei Bykau	[2013]
• Thesis Title: "Exploiting the Volatile Nature of Data and Information in Evolving Repositories and Systems with User Generated Content"	
Annamaria Chiasera	[2012]
• Thesis Title: "Privacy elicitation and utilization in distributed data exchange systems".	

Post-docs

Sabeur Aridhi	[2014 - 2015]
• Work on: Distributed Discovery of k-core in Big Data Graphs	
Chrisa Tsinaraki	[2008 - 2009]
• Work on: Management and Exploitation of Polysemous Terms	
Flavio Rizzolo	[2007 - 2008]
• Work on: Modelling of Concept Evolution	
Nadzeya Kiyavitskaya	[2007 - 2010]
• Work on: Modelling Heterogeneous Domains	

PhD Defense Committee Participations as Examiner

- Georgios Drakopoulos (Ioanian University)	[planned for 2022]
- Riccardo Cappuzzo (Eurocom)	[planned for 2022]
- Niel Chah (University of Toronto)	[planned for 2022]
- Unal Aksu (Utrecht University)	[2022]
- Alex Stergiou (Utrecht University)	[2021]
- Jingyu Shao (Australian National University)	[2021]
- Enhui Huang (École Polytechnique)	[2021]
- Arnel Lefebvre (Utrecht University)	[2021]
- Matteo Fabri (University of Modena and Reggio Emilia)	[2021]
- Matteo Paganelli (University of Modena and Reggio Emilia)	[2021]
- Nicolo Parmiggiani (University of Modena and Reggio Emilia)	[2021]
- Kevin O'Hare (Queen's University Belfast)	[2020]
- Wienand Omta (Utrecht University)	[2020]
- Nasrullah Sheikh (University of Trento, Italy)	[2019]
- Zekarias Tilahun Kefato (University of Trento, Italy)	[2019]
- Kostas Zoumpatianos (University of Trento, Italy)	[2016]
- Pavel Kucherbaev (University of Trento, Italy)	[2016]
- Wang Xiaowei (University of Trento, Italy)	[2016]
- Aikaterini Tzompanaki (University of Paris-Sud, France)	[2016]
- Katsiaryna Mirylenka (University of Trento, Italy)	[2016]
- Zolzaya Dashdorj (University of Trento, Italy)	[2016]
- Daniel Taliun (University of Bolzano, Italy)	[2015]
- Ekaterini Ioannou (Leibniz Universität Hannover, Germany)	[2011]

MSc Theses

- Vince van Noor (Utrecht University),	[(expected) 2021]
- Robbert van Roojaards, (Utrecht University),	[(expected) 2021]
- Maxim Gehlmann, (Utrecht University),	[(expected) 2021]
- Tom Ormsby (Utrecht University),	[(expected) 2021]
- Jeroen Massar (Utrecht University),	[(expected) January 2022]

- Karel van de Vrie, (Utrecht University), Learning with Less Labeling using Synthetic Data for Image Classification [2021]
- Argyro Sfoungari (Utrecht University), Automatic Maintenance of COVID-19 related Knowledge Graphs based on Large-scale Information Extraction from the Scientific Literature [2021]
- Floris Heijmans (Utrecht University), On Finding the Right Algorithm for the Job [2021]
- Bob Bontje (Utrecht University), Dynamic Re-admission Prediction of Heart Patients Using Scalable Models. [2021]
- Debby Lam (Utrecht University), A Socratic Principle Based Method For Fighting Fake News [2020]
- Sara Altamiano (Utrecht University), Applied Model-Based Clustering of Functional Data - Distinguishing Between Phenotypes of Early Knee Osteoarthritis [2020]
- Esmée van Vilsteren (Utrecht University), The reliability of the digital biomarker for walking speed regarding self-monitoring in Multiple Sclerosis [2020]
- Damiano Chini (University of Trento), Member Selection for Balanced and Informative Expert Groups [2019]
- Julia Hermann (University of Trento), Visitor Behavior Analysis from Anonymized Mobile Network Events [2018]
- Tweldebhan Haile Mebrahtu (University of Trento), A System for Monitoring Data Quality [2018]
- Laura Noemi Escobar Flecha (University of Trento), Twitter Segment-based Event detection in Apache Spark [2018]
- Rodrigo Joni Sestari (University of Trento), A Tool for the Visual Understanding of the Spatial Distribution of Topics [2017]
- Martin Brugnara (University of Trento), Automatic Analytics and Understanding of Big Datasets for Smart Cities [2017]
- Yodit Zewdie Kebede (University of Trento), Coverage Map Evaluation and Map Projection of People Moving Patterns [2017]
- Luca Zamboni (University of Trento), The Dataset Exploration Tool Xplainbox and Its Trajectory Clustering Extension [2017]
- Caterina Gallo (University of Trento), A Content-based Recommender System for Companies: a Novel Approach Towards Lead Generation Marketing for Business [2016]
- Gianmaria Martella (University of Trento), Action Identification from How-to User Testimonies in Social Networks [2016]
- Sandro Cavallari (University of Trento), User Profiling Through Social Media Activity Monitoring [2015]
- Claudio D'amico (University of Trento), A Flexible Multi-topic Crawler System for Data Collection From the Web [2015]
- Giulia Preti (University of Trento), Gmint: Preference-based Pattern Mining on Graphs [2015]
- Leysan Nurgalieva (University of Trento), Efficient Methods of Data Acquisition and Visualization in Vibroarthrography [2015]
- Eko Harmawan Susilo (University of Trento), Real Time Server Monitoring System Based on Historical Data Analysis [2015]
- Daniele Foroni (University of Trento), Entity Identification with Dynamic Matching Rule Selection [2014]
- Paolo Sottovia (University of Trento), Knowledge Extraction from Volatile and Heterogeneous Data of Textual Nature [2014]
- Matteo Lissandrini (University of Trento), Discovering User Positions Towards Important Topics in Microblogs [2012]
- Amelina Ahmeti (University of Trento), On making Open Data a valuable asset of the Web [2012]
- Hohammed Qwaider (University of Trento) Reliable Wikipedia [2012]
- Momin Tabash (University of Trento) Social Net. Analysis: Visualization & Analysis of Retweeting Activity on Twitter [2012]
- Helen Tefera Kidane (University of Trento), Recommender Systems for Dynamically Evolving Entities [2011]
- Pavlo Velychko (University of Trento) An organizer for research paper submissions [2011]
- Enrico Sartori (University of Trento), Entity-based Keyword Search in Web Documents [2011]
- Anastasia Melnikova (University of Trento), Leveraging Individual Communities in Online Social Applications [2011]
- Davide Mottin (University of Trento), Entity Ranking Using Click-log Information [2010]
- Andrea Presa (University of Trento), Advanced Ontology Editing and Annotation Using Static and Dynamic Slots [2008]

BSc Theses

- Matthijs Wolters (University of Trento), A model to analyse Wikipedia's evolution [2020]
- Giovanni Frigo (University of Trento), Evaluation Study of State-of-the-art Keyword Query Technique on Large Scale Graphs [2014]
- Rodrigo Joni Sestari (University of Trento), Ottimizzazione Della Catena Automatizzata D'approvvigionamento Di Farmaci Nell'ambito Sanitario Moderno [2015]
- Martin Brugnara (University of Trento), A Dataset and Process Management System for Big Data [2015]
- Matteo Marco Merlo (University of Trento), User Requirement Analysis for Knowledge and Data Management in Neuroinformatic [2009]
- Tiziano Piccardi (University of Trento), Xiadol [2009]
- Fabriza Toss (University of Trento), Development of a Flexible Document Management System for Collaboration [2009]

Publications

(from the most recent to the oldest)

Conference and Workshop Papers

- [C47] G. Preti, P. Rozenshtein, A. Gionis, and Y. Velegrakis, "Discovering Dense Correlated Subgraphs in Dynamic Networks", In Proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD21), pp. 395-407, 2021.
- [C46] D. Foroni, M. Lissandrini and Y. Velegrakis, "Estimating the extent of the effects of Data Quality through Observations", In Proceedings of the IEEE International Conference on Data Engineering (ICDE21), 2021.
- [C45] G. Preti, P. Rozenshtein, A. Gionis and Y. Velegrakis, "Mining Dense Subgraphs with Similar Edges", In Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD20), pp. 20-36, 2020.
- [C44] M. Lissandrini, D. Mottin, T. Palpanas and Y. Velegrakis, "Graph-Query Suggestions for Knowledge Graph Exploration", In Proceedings of the Web Conference - formerly known as WWW (WWW'20), pp. 2549-2555, 2020.

- [C43] D. Gallo, M. Lissandrini, and Y. Velegrakis, "Personalized Page Rank on Knowledge Graphs: Particle Filtering is all you need!", In Proceedings of the International Conference of Extended Database Technologies (EDBT'20), pp. 447-450, 2020. (20% acceptance rate)
- [C42] P. Sottovia, M. Paganelli, F. Guerra, and Y. Velegrakis, "Finding Synonymous Attributes in Evolving Wikipedia Infoboxes", In Proceedings of the International Conference on Advances in Databases and Information Systems (ADBIS'19), p. 169-185, 2019.
- [C41] C. Consonni, P. Sottovia, A. Montresor and Y. Velegrakis, "Discovering Order Dependencies through Order Compatibility", In Proceedings of the IEEE International Conference on Extended Database Technologies (EDBT'19), p. 409-420, 2019. (23% acceptance rate)
- [C40] M. Lissandrini, M. Brugnara, and Y. Velegrakis, "Beyond Macrobenchmarks: Microbenchmark-based Graph Database Evaluation", PVLDB, 12(4), p. 390-403, 2019.
- [C39] D. Foroni, M. Al Hajj Hassan, C. Axenie, R. Acker, S. Bortoli, R. Tudoran, G. Brasche and Y. Velegrakis, "Maira: A Goal-Oriented Incremental Machine Learning Approach to Dynamic Resource Cost Estimation in Distributed Stream Processing Systems", In Proceedings of the International Workshop on Real-Time Business Intelligence and Analytics (BIRTE'18), 2:1-2:10, 2018.
- [C38] D. Papadimitriou, G. Koutrika, Y. Velegrakis and J. Mylopoulos, "Finding Related Forum Posts through Content Similarity over Intention-based Segmentation (Extended Abstract)", In Proceedings of the IEEE International Conference on Data Engineering (ICDE '18), p. 1805-1806, 2018 (Poster Paper).
- [C37] M. Lissandrini, D. Mottin, T. Palpanas and Y. Velegrakis, "Multi-Example Search in Rich Information Graphs", in Proceedings of the IEEE International Conference on Data Engineering (ICDE '18), pp. 809-820, 2018. (22% acceptance rate)
- [C36] D. Papadimitriou, G. Koutrika and Y. Velegrakis, "Modelling and Exploiting Goal and Action Associations for Recommendations", in Proceedings of the International Conference of Extended Database Technology (EDBT '18), pp 409-420, 2018. (24% acceptance rate)
- [C35] G. Preti, M. Lissandrini, D. Mottin and Y. Velegrakis, "Beyond Frequencies: Graph Pattern Mining in Multi-Weighted Graphs", in Proceedings of the International Conference of Extended Database Technology (EDBT '18), 2018. (24% acceptance rate)
- [C34] F. Guerra, Y. Velegrakis, J. S. Cardoso and J. G. Breslin, "The KEYSTONE IC1302 COST Action", In Semantic Keyword-Based Search on Structured Data Sources Third International KEYSTONE Conference (IKC '17) Revised Selected Papers and COST Action IC1302 Reports, pp. 187—195, 2018
- [C33] S. Bykau, J. Lee, D. Srivastava, and Y. Velegrakis, ""Tell me more" using Ladders in Wikipedia", In Proceedings of the International Workshop on Databases and the Web (WebDB '17), pp. 1-6, 2017. (Best paper Award)
- [C32] S. Aridhi, M. Brugnara, A. Montresor and Y. Velegrakis, "Distributed k-core Decomposition and Maintenance in Large Dynamic Graphs", in Proceedings of the International Conference on Distributed and Event-Based Systems (DEBS '16), pp. 161-168, 2016.
- [C31] S. Aridhi, A. Montresor and Y. Velegrakis, "BLADYG: A novel block-centric framework for the analysis of large dynamic graphs", in Proceedings of the 1st High Performance Graph Processing workshop (HPGP '16), pp. 39-42, 2016.
- [C30] P. Kozikowski, E. Ioannou, Y. Velegrakis, and F. Guerra, "Support of Part-whole Relations in Query Answering", In Proceedings of the International Keystone Conference (IKC '15), pp. 94-107, 2015.
- [C29] S. Cadegnani, F. Guerra, S. Ilarri, M. Rodriguez-Hernandez, R. Trillo-Lado, and Y. Velegrakis, "Recommending Web Pages using Item-based Collaborative Filtering Approaches", In Proceedings of the International Keystone Conference (IKC '15), p. 17-29, 2015.
- [C28] S. Bykau, F. Korn, D. Srivastava, and Y. Velegrakis, "Fine-Grained Controversy Detection in Wikipedia", In Proceedings of the International Conference on Data Engineering (ICDE '15), 2015. (25% acceptance rate)
- [C27] A. Guerrieri, A. Montresor, and Y. Velegrakis, "Top-k Item Identification on Dynamic and Distributed Datasets", In Proceedings of the 20th International European Conference on Parallel Processing (EuroPar '14), pp. 270-281, 2014.
- [C26] M. Haddad, J. Stevovic, A. Chiasera, Y. Velegrakis, and M. Hacid, "Access Control for Data Integration in Presence of Data Dependencies", In Proceedings of the 19th International Conference on Database Systems for Advanced Applications (DASFAA '14), 2014
- [C25] D. Mottin, M. Lissandrini, Y. Velegrakis, T. Palpanas, "Exemplar Queries: Give me an Example of What You Need", In Proceedings of the VLDB Endowment (VLDB '14), 7(5), 2014.
- [C24] D. Mottin, A. Marascu, S. Basu Roy, G. Das, T. Palpanas, Y. Velegrakis, "A Probabilistic Optimization Framework for the Empty-Answer Problem", In Proceedings of the VLDB Endowment (VLDB '13), 6(14), 2013. (23% acceptance rate)
- [C23] I. Bedini, B. Elser and Y. Velegrakis, "The Trento Big Data Platform for Public Administration and Large Companies: Use cases and Opportunities", In Proceedings of the International Conference on Very Large Databases (VLDB '13), 6(11), pp. 1166-1167, 2013.
- [C22] S. Bykau, J. Mylopoulos, F. Rizzolo and Y. Velegrakis, "Supporting Queries Spanning Across Phases of Evolving Artifacts using Steiner forests", In Proceedings of the International Conference on Information and Knowledge Management (CIKM '11), pp. 1649-1658, 2011. (15% acceptance rate)

- [C21] S. Bergamaschi, F. Guerra, S. Rota and Y. Velegrakis, "A Hidden Markov Model Approach to Keyword-based Search over Relational Databases", In Proceedings of the International Conference on Conceptual Modelling (ER '11), pp. 411-420, 2011.
- [C20] S. Bergamaschi, E. Domnori, F. Guerra, R. Trillo Lado and Y. Velegrakis, "Keyword Search over Relational Databases: A Metadata Approach", In Proceedings of the International Conference on Management of Data (SIGMOD '11), pp. 565-576, 2011. (23% acceptance rate)
- [C19] S. Bergamaschi, E. Domnori, F. Guerra, R. Trillo Lado and Y. Velegrakis, "Keyword-based Search in Data Integration Systems", In Proceedings of the Italian Symposium on Advanced Database Systems, 2011.
- [C18] S. Bergamaschi, F. Guerra, S. Rota and Y. Velegrakis, "Understanding Linked Open Data through Keyword Searching: the KEYRY approach", In Proceedings of the International Workshop on Linked Web Data Management (LWDM '11), pp 34-35, 2011.
- [C17] E. Ioannou, W. Nejdl, C. Niederee and Y. Velegrakis: "On-the-Fly Entity-Aware Query Processing in the Presence of Linkage", In Proceedings of the VLDB Endowment (VLDB '10), 3(1), pp. 429-438, Sep. 2010. (18% acceptance rate)
- [C16] C. Tsinaraki, Y. Velegrakis, N. Kiyavitskaya and J. Mylopoulos: "A Context-based Model for the Interpretation of Polysemous Terms", In Proceedings of the International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE '10), Oct. 2010.
- [C15] S. Bykau, N. Kiyavitskaya, C. Tsinaraki and Y. Velegrakis: "Bridging the gap between heterogeneous and semantically diverse content of different disciplines", In Proceedings of the Flexible Database and Information System Technology (FlexDBIST '10), pp. 305-309, Aug. 2010.
- [C14] E. Ioannou, C. Niederee and Y. Velegrakis: "Enabling Entity-Based Aggregators for Web 2.0 data", In Proceedings of the International World Wide Web Conference (WWW '10), pp. 1119-1120, Apr. 2010.
- [C13] A. Presa, Y. Velegrakis, F. Rizzolo and S. Bykau: "Modelling Associations through Intensional Attributes", In Proceedings of the International Conference on Semantic Modelling (ER '09), pp. 315-330, Nov. 2009. (31% acceptance rate)
- [C12] F. Rizzolo, Y. Velegrakis, J. Mylopoulos and S. Bykau: "Modeling Concept Evolution: A Historical Perspective", In Proceedings of the International Conference on Semantic Modelling (ER '09), pp. 331-345, Nov. 2009. (31% acceptance rate)
- [C11] B. Alexe, W. Tan and Y. Velegrakis: "STBenchmark: Towards a Benchmark for Mapping Systems", In Proceedings of the VLDB Endowment (VLDB '08), 1(1), pp. 230-244, Aug. 2008. (16% acceptance rate)
- [C10] A. Morris, Y. Velegrakis and P. Bouquet: "Entity Identification on the Semantic Web", In Proceedings of the 5th Semantic Web Applications and Perspectives (SWAP '08), Dec. 2008.
- [C9] T. Palpanas, J. Chaudhry, P. Andritsos, and Y. Velegrakis: "Entity Data Management in OKKAM", In Proceedings of the 2nd International Workshop on Semantic Web Architectures for Enterprises (SWAE '08), pp. 729-733, Sep. 2008.
- [C8] A. Chiasera, F. Casati, F. Daniel, and Y. Velegrakis: "Engineering Privacy Requirements in Business Intelligence Applications", In Proceedings of the 5th International Workshop on Secure Data Management (SDM '08), pp. 219-228, Aug. 2008.
- [C7] D. Srivastava and Y. Velegrakis: "Intensional Associations between Data and Metadata", In Proceedings of the 26th International Conference on Management of Data (SIGMOD '07), Jun. 2007. (15% acceptance rate)
- [C6] D. Srivastava and Y. Velegrakis: "Using Queries to Associate Metadata with Data", In Proceedings of the 23rd International Conference on Data Engineering (ICDE '07), pp. 1451-1453, Apr. 2007. (19% acceptance rate)
- [C5] Y. Kotidis, D. Srivastava and Y. Velegrakis: "Updates Through Views: A New Hope", In Proceedings of the 22nd International Conference on Data Engineering (ICDE '06), pp. 13-24, Apr. 2006. (19% acceptance rate)
- [C4] Y. Velegrakis, R. J. Miller and J. Mylopoulos: "Representing and Querying Data Transformations", In Proceedings of the International Conference on Data Engineering (ICDE '05), pp. 81-92, Apr. 2005. (13% acceptance rate)
- [C3] Y. Velegrakis, R. J. Miller and L. Popa: "Mapping Adaptation under Evolving Schemas", In Proceedings of the International Conference for Very Large Databases (VLDB '03), pp. 584-595, Sep. 2003. (18% acceptance rate)
- [C2] L. Popa, Y. Velegrakis, M. Hernandez, R. J. Miller and R. Fagin: "Translating Web Data", In Proceedings of the 28th International Conference for Very Large Databases (VLDB '02), pp. 598-609, Aug. 2002. (18% acceptance rate)
- [C1] Y. Velegrakis, V. Christophides and P. Constantopoulos: "Declarative Specification of Z39.50 Wrappers using Description Logics", In Proceedings of 3rd European Conference on Research and Advanced Technology for Digital Libraries (ECDL'99), pp. 383-402, Sep. 1999. (Selected as one of the eight best papers of the conference for publishing in the International Journal for Digital Libraries).

Parts in Books or Collections

- [S9] K. Stefanidis, E. Ntoutsi, H. Kondylakis and Y. Velegrakis, "Social-based Collaborative Filtering", In Encyclopedia of Social Network Analysis and Mining, Springer, 2018.
- [S8] S. Bergamaschi, E. Domnori, F. Guerra, S. Rota, R. Trillo Lado and Yannis Velegrakis, "Understanding the Semantics of Keyword Queries on Relational Data Without Accessing the Instance", In R. De Virgilio, F. Guerra and Y. Velegrakis (ed.), Semantic Search over the Web, Springer-Verlag, Chapter 6, pp. 129-156, 2012
- [S7] E. Ioannou, W. Nejdl, C. Niederee, and Yannis Velegrakis, "Embracing Uncertainty in Entity Linking", In R. De Virgilio, F. Guerra and Y. Velegrakis (ed.), Semantic Search over the Web, Springer-Verlag, Chapter 9, pp. 223-251, 2012

- [S6] Z. Bellahsene, A. Bonifati, F. Duchateau and Y. Velegrakis, "On Evaluating Schema Matching and Mapping", In Z. Bellahsene, A. Bonifati and E. Rahm (ed.), *Schema Matching and Mapping*, Springer, pp. 253-291, 2011.
- [S5] A. Bonifati, G. Mecca, P. Papotti and Y. Velegrakis, "Discovery and Correctness of Schema Mapping Transformations", In Z. Bellahsene, A. Bonifati and E. Rahm, (ed.) *Schema Matching and Mapping*, Springer, pp. 111-148, 2011.
- [S4] Y. Velegrakis, "Relational Technologies, Metadata and RDF", In R. De Virgilio, F. Giunchiglia and L. Tanca (ed.), *Semantic Web Information Management: A Model-based Perspective*, Springer, pp. 45-69, 2010.
- [S3] R. Fagin, L. M. Haas, M. Hernandez, R. J. Miller, L. Popa and Y. Velegrakis, "Clio: Schema Mapping Creation and Data Exchange", In A. Borgida, V. Chaudhri, P. Giorgini, and E. Yu (ed.), *Conceptual Modelling: Foundations and Applications*, Springer, pp. 198-236, 2009.
- [S2] Y. Velegrakis, "Updates through Views", In *Encyclopedia of Database Systems*, Springer, pp. 3244-3247, 2009.
- [S1] Y. Velegrakis, "Side-Effect-Free View Updates", In *Encyclopedia of Database Systems*, Springer, pp. 2639-2642, 2009.

Books

- [B3] M. Lissandrini, D. Mottin, T. Palpanas and Y. Velegrakis, "Data Exploration Using Example-Based Methods", *Synthesis Lectures on Data Management*, Morgan Claypool, p. 164, 2018
- [B2] R. De Virgilio, F. Guerra and Y. Velegrakis, "Semantic Search over the Web", Springer-Verlag, p. 417, 2012.
- [B1] R. De Virgilio, F. Giunchiglia, F. Guerra, L. Tanca, Y. Velegrakis, "Special Issue on Semantic Web Data Management", *Information Systems*, 37(4), Elsevier 2012.

Editorships

- [E8] J. Szymanski and Y. Velegrakis, "Semantic Keyword-Based Search on Structured Data Sources – Proceedings of the Third International KEYSTONE Conference (IKC), Revised Selected Papers and COST Action IC1302 Reports", 2018
- [E7] S. Sioutas, Y. Velegrakis and V. Kordonis, "Computers and Electrical Engineering, Special Section on New Trends in Humanistic Informatics: Implementations and Applications, Elsevier", (65), 2018
- [E6] M. Sharaf and Y. Velegrakis, "Proceedings of the 4th International Workshop on Exploratory Search in Databases and the Web (ExploreDB)", 2017.
- [E5] J. S. Cardoso, F. Guerra, G. Houben, A. Miguel Pinto and Y. Velegrakis, "Semantic Keyword-Based Search on Structured Data Sources - First COST Action IC1302 International KEYSTONE Conference (IKC)", 2015
- [E4] M. Wallace and Y. Velegrakis, *Proceedings of the 10th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP)*, 2015
- [E3] Z. Ives and Y. Velegrakis: *Proceedings of the 15th International Workshop on the Web and Databases (WebDB)*, 2012.
- [E2] T. K. Sellis, R. J. Miller, A. Kementsietsidis and Y. Velegrakis: *Proceedings of the ACM SIGMOD International Conference on Management of Data*, ACM, 2011.
- [E1] H. R. M. Nezhari, F. Toumani and Y. Velegrakis: *Proceedings of the PhD Symposium at the 6th International Conference on Service Oriented Computing (ICSOC)*, 2008

Journal Articles

- [J21] G. Preti, M. Lissandrini, D. Mottin and Y. Velegrakis, "Mining Patterns in Graphs with Multiple Weights", *Distributed and Parallel Databases*, 39(2), pp. 281-319, 2021.
- [J20] E. Ioannou and Y. Velegrakis, "EMBench++: Data for a Thorough Benchmarking of Matching-Related Methods", *Semantic Web journal*, 10(2), pp. 435-450, 2019.
- [J19] S. Aridhi, A. Montresor and Y. Velegrakis, "BLADYG: A Graph Processing Framework for Large Dynamic Graphs", *Big Data Research*, 9, p. 9-17, 2017.
- [J18] D. Papadimitriou, G. Koutrika, J. Mylopoulos and Y. Velegrakis, "Finding Related Forum Posts through Content Similarity over Intention-based Segmentation", *IEEE Transactions on Knowledge and Data Engineering*, 2017.
- [J17] S. Cadegani, F. Guerra, S. Ilari, M. Rodriguez-Hernandez, R. Trillo-Lado, Y. Velegrakis, and R. Amaro, "Exploiting Linguistic Analysis on URLs for Recommending Web Pages: a comparative study" *Transactions on Computational Collective Intelligence*, (26), p. 26-45, 2017.
- [J16] D. Mottin, A. Marascu, S. B. Roy, G. Das, T. Palpanas and Y. Velegrakis, "A Holistic and Principled Approach for the Empty-Answer Problem", *VLDB Journal*, 25(4), 2016.
- [J15] D. Mottin, M. Lissandrini, T. Palpanas and Y. Velegrakis, "Exemplar Queries: A New Way of Searching", *VLDB Journal*, 25(6), 2016.
- [J14] D. Papadimitriou, G. Koutrika, J. Mylopoulos and Y. Velegrakis, "The Goal Behind the Action: Towards Goal-aware Systems and Applications", *ACM Transaction on Database Systems*, 41(6), 2016.
- [J13] S. Bergamaschi, D. Ferrari, F. Guerra, G. Simonini and Y. Velegrakis, "Providing insight into data source topics", *Journal of Data Semantics*, 2016.
- [J12] E. Ioannou and Y. Velegrakis, "Searching Web 2.0 Data through Entity-Based Aggregation", *Transactions on Computational Collective Intelligence*, 21, pp. 159-174, 2016.

- [J11] E. Sartori, Y. Velegrakis and F. Guerra, "Entity-based keyword search in web documents", Transactions on Computational Collective Intelligence, 21, pp. 21-49, 2016.
- [J10] S. Bergamaschi, F. Guerra, M. Interlandi, R. Trillo-Lado and Y. Velegrakis, "Combining User and Database Perspective for Solving Keyword Queries over Relational Databases", Information Systems 55, pp. 1-19, 2016.
- [J9] D. Mottin, M. Lissandrini, D. Papadimitriou, T. Palpanas and Y. Velegrakis, "Unleashing the Power of Information Graphs", SIGMOD Record 43(4), 2014.
- [J8] E. Ioannou, N. Rassadko and Y. Velegrakis, "On Generating Benchmark Data for Entity Matching", Journal on Data Semantics, 2(1), pp. 37-56, 2013.
- [J7] D. Mottin, T. Palpanas and Y. Velegrakis, "Entity Ranking Using Click-Log Information", Intelligent Data Analysis Journal, 17(5), pp. 837-856, 2013.
- [J6] T. Palpanas and Y. Velegrakis, "dbTrento: The Data and Information Management group at the University of Trento", SIGMOD Record 41(3), pp. 28-33, 2012.
- [J5] S. Bykau, J. Mylopoulos, F. Rizzolo and Y. Velegrakis, "On Modeling and Querying Concept Evolution", Journal on Data Semantics 1(1), pp. 31-55, 2012.
- [J4] P. Andritsos, A. Fuxman, A. Kementsietsidis, R. J. Miller and Y. Velegrakis, "Kanata: Adaptation and Evolution in Data Sharing Systems", SIGMOD Record, 33(4), pp. 32-37, Dec. 2004.
- [J3] Y. Velegrakis, R. J. Miller and L. Popa, "Preserving mapping consistency under schema changes", VLDB Journal - The International Journal on Very Large Data Bases, 13(3), pp. 274-293, Sep. 2004.
- [J2] P. Andritsos, R. Fagin, A. Fuxman, L. M. Haas, M. A. Hernandez, C. Ho, A. Kementsietsidis, R. J. Miller, F. Naumann, L. Popa, Y. Velegrakis, C. Vilarem and L. Yan, "Schema Management", IEEE Data Engineering Bulletin, 25(3), pp. 32-38, Sep. 2002.
- [J1] Y. Velegrakis, V. Christophides and P. Constantopoulos, "On Z39.50 Wrapping and Description Logics", International Journal on Digital Libraries (JODL), 3(3), pp. 208-220, Sep. 2000.

System Demonstrations / Demo Papers

- [D19] D. Foroni, M. Lissandrini and Y. Velegrakis, "The F4U System for Understanding the Effects of Data Quality", In IEEE International Conference on Data Engineering (ICDE), 2021.
- [D17] M. Paganelli, P. Sottovia, F. Guerra and Y. Velegrakis, "TuneR: Fine Tuning of Rule-based Entity Matchers", In ACM International Conference on Information and Knowledge Management (CIKM), pp. 2945-2948, 2019.
- [D17] G. Preti, P. Rozenshtein, A. Gionis and Y. Velegrakis, "ExCoDE: a Tool for Discovering and Visualizing Regions of Correlation in Dynamic Networks", In IEEE International Conference on Data Mining (ICDM), 2019.
- [D16] M. Lissandrini, D. Mottin, Y. Velegrakis and T. Palpanas, "X2Q: Your Personal Example-based Graph Explorer", In International Conference on Very Large Data Bases (VLDB), 2018.
- [D15] D. Beneventano, F. Guerra and Yannis Velegrakis, "Data Exploration on Large Amount of Relational Data through Keyword Queries", In International Conference in High Performance Computing & Simulation (HPCS '17), p. 70-73, 2017.
- [D14] E. Ioannou and Y. Velegrakis, "EMBench: Generating Entity-Related Benchmark Data", In Proceedings of the 13th International Semantic Web Conference (ISWC '14), pp. 113-116, 2014.
- [D13] D. Mottin, M. Lissandrini, T. Palpanas and Y. Velegrakis, "Searching with XQ: the eXemplar Query Search Engine", In Proceedings of the 33rd International Conference on Management of Data (SIGMOD '14), pp. 901-904, 2014.
- [D12] D. Mottin, A. Marascu, S. Basu Roy, G. Das, T. Palpanas and Y. Velegrakis, "IQR: An Interactive Query Relaxation System for the Empty-Answer Problem", In Proceedings of the 33rd International Conference on Management of Data (SIGMOD '14), pp. 1095-1098, 2014.
- [D11] S. Bergamaschi, F. Guerra, M. Interlandi, R. Trillo-Lado and Y. Velegrakis, "QUEST: A Keyword Search System for Relational Data based on Semantic and Machine Learning Techniques", In Proceedings of the International Conference on Very Large Databases (VLDB '13), 6(12), pp. 1222-1225, 2013.
- [D10] S. Bykau, F. Rizzolo and Y. Velegrakis, "A Query Answering System for Data with Evolution Relationships", In Proceedings of the 32nd International Conference on Management of Data (SIGMOD '13), pp. 989-992, 2013.
- [D9] S. Bergamaschi, F. Guerra, S. Rota and Y. Velegrakis, "KEYRY: A Keyword-based Search Engine over Relational Databases based on a Hidden Markov Model", In Proceedings of the International Conference of Conceptual Modeling (ER '11), pp. 328-331, 2011.
- [D8] A. Katifori, C. Nikolaou, M. Platakis, Y. Ioannidis, A. Tympas, M. Koubarakis, N. Sarris, V. Tountopoulos, E. Tzoanos, S. Bykau, N. Kiyavitskaya, C. Tsinaraki and Y. Velegrakis, "The Papyrus Digital Library: Discovering History in the News", In International Conference on Theory and Practice of Digital Libraries, pp. 465-468, 2011.
- [D7] E. Ioannou, W. Nejdl, C. Niederee and Y. Velegrakis, "LinkDB: A Probabilistic Linkage Database System", In Proceedings of the 30th International Conference on Management of Data (SIGMOD '11), pp. 1307-1309, Jun 2011.
- [D6] S. Bergamaschi, E. Domnori, F. Guerra, M. Orsini, R. T. Lado and Y. Velegrakis, "Keymantic: Semantic Keyword based Searching in Data Integration Systems", In Proceedings of the VLDB Endowment, 3(2), pp. 1637-1640, Sep. 2010.
- [D5] E. Ioannou, C. Niederee, Y. Velegrakis, "A Matching Framework for Entity-Based Aggregation", In Proceedings of the Hellenic Data Management Symposium (HDMS '10), Jun. 2010.

- [D4] B. Alexe, W. Tan and Y. Velegrakis: "Comparing and Evaluating Mapping Systems with STBenchmark", In Proceedings of the 34th International Conference for Very Large Databases (VLDB '08), pp. 1468-1471, Aug. 2008.
- [D3] D. Srivastava and Y. Velegrakis: "MMS: Using Queries as Data Values for Metadata Management", In Proceedings of the 23rd International Conference on Data Engineering (ICDE '07), pp. 1481-1482, Apr. 2007.
- [D2] Y. Velegrakis, R. J. Miller, L. Popa and J. Mylopoulos: "ToMAS: A System for Adapting Mappings while Schemas Evolve", In Proceedings of the International Conference in Data Engineering (ICDE '04), pp. 862, Mar. 2004.
- [D1] L. Popa, M. Hernandez, Y. Velegrakis, R. J. Miller, F. Naumann and H. Ho: "Mapping XML and Relational Schemas with Clio", In Proceedings of the International Conference in Data Engineering (ICDE '02), pp. 498-499, Feb. 2002.

Patents

- [P2] D. Srivastava, Y. Velegrakis: "Method and apparatus for associating metadata with data", US Patent 8145624, Mar. 2012.
- [P1] Y. Kotidis, D. Srivastava, Y. Velegrakis: "Updates Through Views", US Patent 7440957, Oct. 2008.

Tutorials in Conferences

- [T8] M. Lissandrini, D. Mottin, T. Palpanas, and Y. Velegrakis, "Example-based Exploration: Exploring Knowledge through Examples", In European Semantic Web Conference (ESWC'20), 2020.
- [T7] D. Mottin, M. Lissandrini, T. Palpanas, and Y. Velegrakis, "Example-based Search: a New Frontier for Exploratory Search", In International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '19), 2019.
- [T6] D. Mottin, M. Lissandrini, Y. Velegrakis and T. Palpanas, "Exploring the Data Wilderness through Examples", In International Conference on Management of Data (SIGMOD '19), 2019.
- [T5] D. Mottin, M. Lissandrini, Y. Velegrakis and T. Palpanas, "New Trends on Exploratory Methods for Data Analytics", In International Conference on Very Large DataBases (VLDB '17), 10(12), pp. 1977-1980, 2017.
- [T4] D. Papadimitriou, Y. Velegrakis, G. Koutrika and J. Mylopoulos, "Goals in Social Media, Information Retrieval and Intelligent Agents", In International Conference on Management of Data (ICDE '15), 2015.
- [T3] O. Hassanzadeh, A. Kementsietsidis and Y. Velegrakis, "Data Management Issues on the Semantic Web", In International Conference on Management of Data (ICDE '12), pp. 1204-1206, 2012.
- [T2] A. Bonifati and Y. Velegrakis: "Schema Matching and Mapping: From Usage to Evaluation", In Proceedings of the International Conference on Extending Database Technology (EDBT '11), pp. 527-529, Mar. 2011.
- [T1] A. Kementsietsidis, O. Hassanzadeh and Y. Velegrakis: "Publishing Relational Data in the Semantic Web", Extended Semantic Web Conference (ESWC '11), 2011.

Online Articles

- [O1] Y. Velegrakis, "Data Integration", In AI Research in Greece: Information Processing/Management, by M. Koubarakis and T. Sellis, <http://www.eetn.gr/index.php/about-eetn/eetn-publications/ai-research-in-greece/information-processing-management>, 2008.