IOANNIS (YANNIS) VELEGRAKIS

CURRICULUM VITAE

Department of Information and Computing Sciences Utrecht University Princetonplein 5 3584CC Utrecht, Netherlands +31 (30) 2537323 i.velegrakis@uu.nl http://velgias.github.io

Current Position

Professor and Chair of Very Large Data Management at Utrecht University, Head of the Utrecht Data Intensive Systems lab, Associate Professor of Computer Science at the University of Trento, coordinator of the EIT Digital MSc Program and its Data Science Specialization at the University of Trento.

Research Interests

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

Biographical Information

Official Name: loannis Velegrakis
Citizenship: Canadian, Greek, Italian

Languages: English (Excellent), Greek (Excellent), Italian (Fluent), French (Basic)

Employment & Experience

Professor, Chair on Very Large Data Management, Dep. of Information and Computing Sciences University of Trento, Italy Associate Professor, Dep. of Information Engineering & Computer Science Huawei Technologies, European Research Center, Munich, Germany Visiting Researcher in AlOps University of Paris-Sud (Paris-Saclay), France External Member, LaHDaK Group, Laboratoire de Recherche en Informatique University of Paris-Sud (Paris-Saclay), France Visiting Professor, Jean D' Alembert Fellow, Laboratoire de Recherche en Informatique University of California, Santa-Cruz, USA Visiting Professor, Department of Computer Science AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator	
Associate Professor, Dep. of Information Engineering & Computer Science Huawei Technologies, European Research Center, Munich, Germany Visiting Researcher in AlOps University of Paris-Sud (Paris-Saclay), France External Member, LaHDaK Group, Laboratoire de Recherche en Informatique University of Paris-Sud (Paris-Saclay), France Visiting Professor, Jean D' Alembert Fellow, Laboratoire de Recherche en Informatique University of California, Santa-Cruz, USA Visiting Professor, Department of Computer Science AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator	[Mar. 2019 – today] Dep. of Information and Computing Sciences
Visiting Researcher in AlOps University of Paris-Sud (Paris-Saclay), France External Member, LaHDaK Group, Laboratoire de Recherche en Informatique University of Paris-Sud (Paris-Saclay), France Visiting Professor, Jean D' Alembert Fellow, Laboratoire de Recherche en Informatique University of California, Santa-Cruz, USA Visiting Professor, Department of Computer Science AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator	[Sep. 2005 – today] ag & Computer Science
External Member, LaHDaK Group, Laboratoire de Recherche en Informatique University of Paris-Sud (Paris-Saclay), France Visiting Professor, Jean D' Alembert Fellow, Laboratoire de Recherche en Informatique University of California, Santa-Cruz, USA Visiting Professor, Department of Computer Science AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator	Munich, Germany [May 2018 – Jul. 2018]
Visiting Professor, Jean D' Alembert Fellow, Laboratoire de Recherche en Informatique University of California, Santa-Cruz, USA Visiting Professor, Department of Computer Science AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator	[Jan. 2018 – Jan. 2019] Recherche en Informatique
Visiting Professor, Department of Computer Science AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator [Sep. 2004 - Au [Jun. 2001 - Sep. 2001] & [May 2002 - Jun. 2001] & [May 2002 - Jun. 2001] & [May 2000] & [May 200	[Jan. 2017 – Sep. 2017] toire de Recherche en Informatique
AT&T Labs - Research, USA Technical Specialist, Researcher, Member of the Database Department. IBM Almaden Research Center, USA Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator [Sep. 2004 - Au [Jun. 2001 - Sep. 2001] & [May 2002 - Jun. 2001] & [May 2002 - Jun. 2001] & [May 2000] & [May 200	[Jun. 2007 – Sep. 2007]
Summer Visitor Department of Computer Science, University of Toronto, Canada Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator [Sep. 1998 - Sep. 1998 - Sep. 1998 - Sep. 1998 - Sep. 1996 - June 1998 - Sep. 199	[Sep. 2004 - Aug. 2006]
Research Assistant IBM Toronto Lab, Center of Advanced Studies, Canada CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator [Apr. 2001 - Se [May 2000 - Se [Sep. 1996 - Ju	[Jun. 2001 - Sep. 2001] & [May 2002 - Jul. 2002]
CAS Member MakNet Corporation, Toronto, Canada Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator [May 2000 - Se [Sep. 1996 - Ju	onto, Canada [Sep. 1998 - Sep. 2004]
Technology Consultant Department of Business Administration, CRETE D.A. College, Greece System Administrator [Sep. 1996 - Ju	ada [Apr. 2001 - Sep. 2004]
System Administrator	[May 2000 - Sep. 2000]
Institute of Comp. Science, Foundation of Research & Technology, Greece [Jun. 1994 - Jun.	A. College, Greece [Sep. 1996 - Jun. 1997]
Research Assistant	& Technology, Greece [Jun. 1994 - Jun. 1998]
System Administration Group, Comp. Center, University of Crete, Greece [Sep. 1992 - Ju System Operator, Technical Consultant	ersity of Crete, Greece [Sep. 1992 - Jun. 1994]

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Education and Degrees

Ph.D. in Computer Science, University of Toronto, Canada Dissertation: "Managing Schema Mappings in Highly Heterogeneous Environments". Supervisor: Renée J. Miller and John Mylopoulos

[1998]

[1996]

[2008]

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

B.Sc. in Computer Science, University of Crete, Greece (Summa cum Laude)

Thesis: "VRW: Creation, Modification and Production of data reports".

Supervisor: Panos Constantopoulos

Honors, Achievements, Prizes and Awards

•	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

- "Ranking Query Results based on the Query Semantics and in the Presence of Linkage and Evolution", International Workshop on Ranking in Databases (DBRank), in conjunction with VLDB, 2012
- "Updates: The Neglected Operations", International Workshop on Databases, Information Systems and Peer-to-Peer Computing (DBISP2P), in conjunction with VLDB, 2008

Professional Affiliations, Memberships and Services

SWAE - International Workshop on Semantic Web Architectures for Enterprises

General Chair VLDB - International Conference of Very Large Databases	[2013]
Steering Committee Member: ExploreDB – International Workshop on Exploratory Search in Databases and the Web WebDB - International Workshop on the Web and Databases	[2018 - 2019] [2013 - 2018]
Summer School Organized EDBT – ACM Extends Database Technologies Summer School	[2019]
PC Chair ExploreDB – International Workshop on Exploratory Search in Databases and the Web IKC – International Keystone Conference SMAP - Int. Workshop on Semantic and Social Media Adaptation and Personalization SDSW - International Workshop on Surfacing the Big and the Social Web WebDB - International Workshop on the Web and Databases VLDB Tutorial Program - International Conference of Very Large Databases DESWeb - International Workshop of Data Engineering Meets the Semantic Web	[2017, 2018] [2015, 2017] [2015] [2014, 2015] [2012] [2008] [2010, 2011]

Vice Chair / Area Chair

ICDE – International Conference on Data Engineering [2018]

Editorial Board

ACM SIGMOD Record [Jul. 2019 - now]
Springer International Journal on Data Semantics [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 Int. Conference on Information and Knowledge Management	[2008, 2009, 2014]
DBPL - International Conference on Databases and Programing Languages	[2011, 2016]
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EDBT - International Conference on Extended Database Technology	[2010, 2011, 2014 - 2019]
ESWC - Extended Semantic Web Conference	[2011]
ICDE - International Conference on Data Engineering	[2006 - 2012, 2015 - 2018]
ICDE - International Conference on Data Engineering Lightning Talks	[2018]
ICDT - International Conference on Database Theory	[2012]
ICSOC - International Conference on Service Oriented Computing	[2008, 2009]
ICWE - International Conference on Web Engineering	[2010]
SIGMOD - International Conference on Management of Data	[2005, 2007, 2011, 2017, 2018]
SSDBM - Conference on Scientific and Statistical Database Management	[2016]
VLDB - International Conference on Very Large Data Bases	[2007 - 2010, 2015, 2017, 2019]
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 Conf. 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]
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]
SEDB - Italian Symposium on Advanced Database Systems	[2011, 2012]
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]
urnal 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).	

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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

Summer School Coordinator / Organizer

[2019] **EDBT Summer School**

[Apr. 1997 - Jan. 1998]

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Scientific Reviewer / Project Evaluator

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

Fellowship Selection Committee / Evaluator

Hellenic Foundation for Research & Innovation (ELIDEK) – (Phd & Post-doc selection) [2019]

Research Grants

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

Coordinator: System Data Analysis [2016]

Saidea SIr.: 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 SIr.: 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 Currie 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.

Educational Grants

EIT Digital Master [2016, 2017]

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 Activities

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

Head, Utrecht Data Intensive Systems Lab [Mar. 2019 – now]

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

Coordinator, MSc Program of the EIT Digital	[Jun. 2015 – now]
MSc Selection Committee Member	[Sep. 2013 – now]
Coordinator, University of Trento Node, CINI Big Data Laboratory	[Sep. 2014 – now]
Co-Founder & Coordinator, University of Trento Data and Information Management Research Group	[Sep. 2006 - now]
Coordinator, Data & Knowledge Management Research Program	[Sep. 2013 – now]
PhD School Executive Committee member [May 2005 –	Aug. 2010 & 2015- now]

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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 in Informatics	[Mar. 2007 – Mar. 2010]

Teaching Experience

Department of Engineering	and Computer Science.	University of Trento, Italy
	i and combuter ocience.	Ciliversity of Trefito, Italy

Databases (~230 Students)	[2014 - now]
Massive Data Analytics / Data Mining (~50 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]

Department of Business Administration, CRETE D.A. College, Greece

Information Technology (~25 Students) [1996, 1997]

Massive Open Online Courses

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

Summer / Winter School Teaching

- Big data technologies for smart cities data exploitation and exploration, IEEE European Summer School on Smart Cities, Trento, Italy, September 2017.
- Taming Big Data: From management and curation to storage and analysis. Cuso Winter School, Champéry, Switzerland, February 2016.

Student Supervision

PhD Students (Current)

Paolo Sottovia	[2019 (expected)]
 Thesis on: Knowledge and Opinion Extraction from Voluminous Data Daniele Foroni 	[2019 (expected)]
Thesis on: Data Quality in Big Data Cristian Conconi	[2019 (expected)]
Thesis on Graph Management Giulia Preti	[2019 (expected)]
Thesis on: Graph Data Management Sivam Pasupathipillai	[2020 (expected)]
Thesis on Stream Management Martin Brugnara The Street Control of the Street Cont	[2021 (expected)]
Thesis on Data Exploration	

PhD Students (Graduated)

	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 Thesis title: "Advanced Query Paradigms for the Newton Llear"."	[2015]
	 Thesis title: "Advanced Query Paradigms for the Novice User" Siarhei Bykau 	[2013]
,	Yannis Velegrakis	5/10

 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

701 W000	
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 Participation

D Deterise Committee i articipation			
- 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]		

Publications

(from the most recent to the oldest)

Conference and Workshop Papers

- [C41] M. Lissandrini, M. Brugnara, and Y. Velegrakis, "Beyond Macrobenchmarks: Microbenchmark-based Graph Database Evaluation", PVLDB, 2019.
- [C40] 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'18), p. 409-420, 2019.
- [C39] D. Foroni, M. Al Hajj Hassan, C. Axenie, R. Acker, S. Bortoli, R. Tudoran, G. Brasche and Y. Velegrakis, "Moira: 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), 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), 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), 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.

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- [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. Guerierri, 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.
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