

KOUTRIKA GEORGIA

Organization: ATHENA RESEARCH CENTER
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SUMMARY

Dr. Georgia Koutrika is a Full Professor in the Department of Computer Science at University of Nicosia in Athens and a Research Director at Athena Research Center. Before that, she was a Senior Research Scientist at HP Labs, researcher at IBM Almaden, and postdoctoral researcher at Stanford. Her work explores how artificial intelligence can transform data management and understanding, particularly through conversational interfaces, AI-driven data management systems and responsible algorithmic design.

She has extensive experience in building systems, leading teams and supervising students and researchers. Her work has been incorporated in commercial products, described in 19 granted patents and 26 patent applications in the US and worldwide, and published in more than 140 papers in top-tier conferences and journals. She has recently co-authored a book on *"Natural Language Interfaces for Databases with Deep Learning"*.

She plays a prominent role in the data management research community. She is a member of the VLDB Endowment Board of Trustees, the EDBT Executive Board, and the ACM Europe Council. She is coordinating Editor-in-Chief for the VLDB Journal, and chairs the ACM Europe Working Group on Seasonal Schools. She is also the General Chair for VLDB 2027, SIGMOD 2028 Tutorial Chair. In the past, she was PC co-chair for VLDB 2023, co-EiC of Proceedings of the VLDB (PVLDB) Vol 16, general chair for ACM SIGMOD 2016, and member of the PVLDB Advisory board. She has served in various other organization roles, including EDBT 2023 and ICDE 2021 sponsorship chair. She has served or serves as associate editor for top conferences (such as ACM SIGMOD and VLDB) and journals (TKDE, VLDB Journal). She has received the EDBT 2023 Test-of-Time award, 2 best demo awards, and several industrial recognitions.

EDUCATION

- PhD in Computer Science, Thesis Title: "Query Personalization based on User Preferences", Department of Informatics and Telecommunications, University of Athens, Greece
- M.Sc. in Advanced Information Systems, Thesis: "Searching and displaying medical DICOM images" Department of Informatics and Telecommunications, University of Athens, Greece
- B.Sc. in Computer Science, Thesis: "Real-time Monitoring of Vehicles on Maps", University of Athens, Greece

AWARDS, SCHOLARSHIPS and RECOGNITIONS

- EDBT 2023 Test of Time award
- Distinguished Speaker of the ACM, IEEE Senior Member, ACM Senior Member
- 6 industry recognitions for innovation, leadership and people&team development (2013-2016)
- 2 ACM SIGMOD Best Demo Awards (2012, 2009)
- DELOS Network of Excellence Fellowship for young researchers (2004) – Onassis Foundation (2002)
- First award scholarship from the Greek State Scholarship Foundation (IKY) for PhD studies
- First award scholarship from the Greek State Scholarship Foundation (IKY) for MSc and B.Sc. studies

PROFESSIONAL POSITIONS

Since 2017: **Research Director, Head of the User-Centered Systems Department, Athena Research Center**

Her group works on inventing algorithms and building systems on futuristic data interfaces, intelligent data exploration, algorithmic fairness, and learnt data management. She is the coordinator of the EU project DataGEMS, while she has funding from several other EU projects as well as through industrial collaborations (including Huawei and Nestle).

2016 - 2012: Senior Research Scientist, Printing and Content Lab, HP Labs

Invented, developed, and transferred to business divisions innovative technology on enabling user analytics, personalization, NL search and recommendations in applications including print (User Analytics Platform), automated publishing (TopicSelect Platform), customer care (HP Social Reach), education (HP METIS – Educational Platform) and services (CLASP - Cloud-based service platform). Led teams of developers in US and China, mentored junior researchers, and students, and consulted for the business units. Her work has also produced several patents, patent applications, and publications.

2012 - 2010: Researcher, Information Integration Group, IBM Research Almaden

Developed languages and algorithms that make it easier to create, maintain, refine and deploy complex entity resolution and integration flows over unstructured data. Her work has been productized in IBM® Social Data Analytics application for Brand Management Retail and the Social MDM Matching application, and as part of Infosphere BigMatch. It has also produced several publications, a patent and has won a test-of-time award.

2009 - 2006: Post-doctoral research fellow, Computer Science Dept., Stanford University

Developed systems and algorithms for data exploration, recommendations, web spam, and entity resolution. Supervised PhD and grad students. Her work resulted in several publications, and an ACM SIGMOD Best Demo Award (CourseRank). CourseRank became a course-planning start-up developed at Stanford and then sold to Chegg.

2009-2007: Visiting Collaborator, HP Labs at Palo Alto, USA.

Worked on user profiling from user logs for use in the Live Information Management Platform for the real-time management and distribution of live information feeds.

2006 - 2000: Research engineer, Dept. of Informatics and Telecomm., University of Athens

Worked on implementing personalization and data extraction algorithms and tools in European-funded and national projects. Led and contributed to the development of an ETL execution engine, which was transferred to Unixfor S.A. Greece. Led and contributed to the development of two GIS systems for the management of human resources, transferred to Public Power Corporation, Greece, and the Organization of Professional Education and Preparation (OEEK).

HIGHLIGHTS OF LEADERSHIP IN INDUSTRIAL INNOVATION

Her work on:

- **learning analytics** became part of the HP Hybrid Content Delivery solution. [6 patents]
- **product recognition and recommendation** algorithms was integrated in HP Forums. [4 patents]
- **user data analytics** has been used in many systems at HP [3 patents]
- **large-scale data integration** became part of IBM® Infosphere BigMatch [1 patent, 1 test-of-time award]
- **information extraction** became part of IBM® Social Data Analytics application for Brand Management Retail and the Social MDM Matching application.
- **recommender systems** became part of CourseRank (now Chegg). [3 papers, 1 award]

GRANTS

- **DATAGEMS - Data Discovery Platform with Generalized Exploratory, Management, and Search Capabilities. (Coordinator)** (Grant No: 101188416). A data discovery platform that aims to address those limitations, seamlessly integrating data sharing, discovery and analysis into a system that addresses the

whole data lifecycle, i.e., sharing, storing, managing, discovering, analyzing and reusing (data and/or metadata), bridging the gap between the data provider and the data consumer. - € 6 688 960,00

- **Semantic Data Engines – Huawei Research Grant** developing a new semantic data engine that supports AI-based data processing in its core.
- **ARMADA - Reliable Conversational Domain-Specific Data Exploration and Analysis** (Grant no: 101168951) – doctoral network aims at training 15 Early Stage Researchers (ESRs) to specialize in the overarching area of Conversational Artificial Intelligence (Conversational AI) and the challenges associated to the recent advances in developing Large Language Models (LLMs).
- **Future of Database Programming Contest – HUAWEI:** the Future of Database Programming Contest invites student teams from degree-granting institutions are invited to compete in emerging trends and forward-looking problems in data management. - € 82000
- **Talk to Data – Nestle Collaboration Grant:** A NL interface for BI analysis
- **INODE - Intelligent Open Data Exploration** (Grant No: 863410) - EU H2020 - H2020-EU.1.4.1.3. - Development, deployment and operation of ICT-based e-infrastructures, inode-project.eu/ - € 5 732 000
- **EOSC Future** (Grant agreement ID: 101017536) - EU H2020 - H2020-EU.1.4.1.3 - € 40 877 088,83, an EU-funded H2020 project that is implementing the European Open Science Cloud (EOSC).
- **FAIRCORE4EOSC** (Grant agreement ID: 101057264) - EU H2020 - H2020-EU.1.4.1.3 – € 9 997 558,00

ACADEMIC AND ADMINISTRATIVE POSITIONS

- 2025 ACM Europe Council – Treasurer/Secretary: July 1, 2025 - June 30, 2029
- ACM SIGMOD Awards committee - since 2025
- EDBT Executive Board – since 2025
- PhD Extended Doctorate Council in ICT (Board for the XLI cycle), Department of Engineering 'Enzo Ferrari' (DIEF), University of Modena and Reggio Emilia: <https://www.ict.unimore.it/Organization.asp>
- University of Athens, MSc Committee of the Data Science (since 2024)
- VLDB Endowment Board of Trustee (since 2022)
- VLDB conference strategy committee (since 2023)
- PVLDB Advisory Board Member (2023-2021)
- Chair of the ACM Europe Seasonal Schools Working Group (since 2022)
- Treasurer of the ACM SIGMOD Greek Chapter (2025 - 2024)
- Member of the ACM-RAISE Working Group (2023- 2021)
- Treasurer of the Greek ACM-W Chapter (2024-2018)
- ACM SIGMOD Associate Information Director (2026- 2012)
- President of the Scientific Council of IMSI-ATHENA Research Center (2025-2021)
- Member of ATHENA's Gender Equality Committee (2024-2021)

EXPERIENCE WITH COMMITTEES

General Chair

- General co-chair, VLDB 2027, Athens, Greece
- General co-chair, Hellenic Data Management Symposium (HDMS) 2019, Athens, Greece
- General co-chair, 1st Summit on Gender Equality in Computing (GEC 2019)
- General co-chair, ACM SIGMOD International Conference on Management of Data (SIGMOD) 2016, San Francisco, USA (record attendance: 1100 attendees)

Editorial Roles

- PVLDB: Co-EiC of Proceedings of the VLDB (PVLDB) Vol 16
- VLDB Journal: Editor-in-chief since 2020, Coordinating EIC since 2023
- Associate Editor:
 - ACM / IMS Journal of Data Science: Associate Editor since 2021
 - VLDB (2025, 2022, 2020-2019), SIGMOD (2026, 2022, 2021), EDBT (2027,2026, 2022), ICDE (2026, 2025,2024), RecSys (2025-2024), CODS-COMAD 2022
 - IEEE Transaction of Knowledge and Data Engineering (2020-2019)

Program Committee/Track Chair

- Tutorial Chair, SIGMOD 2028
- Demo co-Chair, EDBT 2025
- Panel Chair, ICWE 2024
- Co-Chair, 2nd Data Economy Workshop in conj. with SIGMOD 2023 (with N. Laoutaris)
- Co-Chair, 1st Greek ACM-W Chapter Winter School on Fairness in AI, 2022
- Sponsorship chair, EDBT 2023, Ioannina Greece
- PC co-Chair, 49th International Conference on Very Large Data Bases, 2023
- PC co-Chair, ACM Symposium on Cloud Computing, (SoCC) 2021
- Sponsorship chair, IEEE International Conference on Data Engineering (ICDE) 2021, Greece
- Panel Chair, DASFAA2022
- Panel Chair, First International Conference on Artificial Intelligence and Machine Learning Systems, 2021
- Diversity and Inclusion Chair, IEEE International Conference on Data Engineering (ICDE) 2021
- Demo PC co-chair, ACM SIGMOD International Conference on Management of Data (SIGMOD) 2018, USA
- Industrial PC co-chair, DASFAA 2017, Suzhou, China
- Industrial PC chair, International Conference on Extending Database Technology (EDBT) 2016, Bordeaux, France
- Workshop and Tutorial co-chair, IEEE International Conference on Data Engineering (ICDE) 2016, Helsinki, Finland
- PC co-chair, DBRank, Workshop on Ranking in Databases in conj. with VLDB, 2013-2012
- PC co-chair, PersDB, Int'l Workshop on Personalized Access, Profile Management, and Context Awareness in conj. with VLDB, 2009-2008
- Doctoral Symposium PC co-chair, NLDB 2008, London, UK
- PC co-chair, PersDL, Int'l Workshop on Personalized Access, Profile Management and Context Awareness, in conj. with UM 2007

Steering Committee

- ACM Europe Summer School in Data Science, Athens: 2024-2023
- Conversational Access to Data, Workshop co-located with VLDB 2019.
- ExploreDB, Workshop on Exploratory Search in Databases and the Web with ACM SIGMOD International Conference on Management of Data (SIGMOD), 2018-2014
- PersDB, Workshop on Personalized Access, Profile Management, and Context Awareness with VLDB, 2013-2010

Award Committees

- Jim Gray Dissertation Award Committee, ACM SIGMOD 2026 (Co-chair)
- ACM SIGMOD Award Committee (since 2026)
- The Hector Garcia-Molina Mentorship Award Committee
- ICDE 2025 Best Paper Committee
- Best Paper Selection Committee for VLDB 2019

Program Committee Member (selected list)

- Jim Gray Dissertation Award Committee, ACM SIGMOD 2025
- ACM SIGMOD International Conference on Management of Data (SIGMOD): Industrial (2020), Demo (2023, 2021-2019, 2015), Research (2011), Undergrad Research (2014)
- IEEE International Conference on Data Engineering (ICDE): Research (2021, 2020, 2019, 2015, 2013, 2009), Industrial (2021), Student Travel Award (2018), PhD symposium (2017)
- International Conference on Extending Database Technology (EDBT): Senior Member (2020), Research (2021, 2019, 2013-2008), Industrial (2022, 2015-2014), Demo (2021)
- International Conference on Very Large Databases (VLDB): Research (2021, 2018-17, 2015, 2010), Demo (2019, 2018, 2016), Industrial (2025, 2024)
- ACM Conference on Recommender Systems (RecSys): Senior (2025), Research (2021-2017, 2013-2009),
- ACM International Conference on Information and Knowledge Management (CIKM): Research (2020, 2019, 2018, 2015, 2014)
- International World Wide Web Conference (WWW): 2014-2008
- ACM Web Search and Data Mining (WSDM): 2014-2010
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining: Research (2016, 2013, 2010), Industrial (2015-2014)
- DOLAP 2021, SDM 2019, IJCAI 2016
- SOFSEM (2021-2019, 2017-2016), ADBIS (2015-2013), HDMS (2018, 2016)
- HP TechCon 2014: HP Technical Conference

Journal Reviewer

- VLDB Journal, IEEE Transaction of Knowledge and Data Engineering, TODS, Artificial Intelligence, Information Systems, IEEE Internet Computing, Semantic Web Journal, Transactions in Learning Technologies

Workshop Program Committee Member

- HILDA@SIGMOD2020, SEAdata 2020@EDBT, BigVis @EDBT (2018), GRADES-NDA@SIGMOD (2019, 2018), NDA@SIGMOD Workshop (2017), Dash@KDD(2021-2020)

Proposals Reviewer

- ZHAW Digital Fellowship, 2020
- Research Committee of the Free University of Bozen-Bolzano, 2017
- Israel Science Foundation (ISF), 2023, 2017, 2014
- Research Grant Council (RGC) of Hong Kong, 2013

STUDENT SUPERVISION

Supervisor of PhD students:

- Antonis Mandamadiotis (Athena Research Center/Univ. of Grenoble) – Recommendation Algorithms for Guided Data Exploration (November 2026)
- Stavroula Eleftherakis (Athena Research Center/Univ. of Grenoble) – On the Fragility of Fairness in Recommender Systems: From Fairness Optimization to Fairness Manipulation (October 2026)
- George Katsogiannis-Meimarakis (Athena Research Center/Univ. of Grenoble) – Intelligent Data Discovery (ongoing)
- Christos Tsapelas (Athena Research Center/University of Athens) – Semantic Query Engines (ongoing)
- Anna Mitsopoulou (Athena Research Center/University of Athens) – Reliable Natural Language Interfaces (ongoing)
- Mike Xydias (Athena Research Center/University of Athens) – Explaining Data: From Single Rows to Datasets (ongoing)
- Yifei Dong (Athena Research Center/TUW) – Multiturn Text-to-SQL Systems (ongoing)

- Yuxuan Jiang (Athena Research Center/Utrecht University) - Proactive Data Exploration Agents: Ambiguity-Aware NL2SQL and Guided Analytics (ongoing)
- Apostolis Koukouvinis (Athena Research Center/Utrecht University) -
- Kostas Mpamparousis – Learnt Query Optimization (ongoing)

Co-advisor of PhD students:

- Marialena Kyriakidi (University of Athens, Greece) – Recommendations over Graph Databases [2021]
- Niousha Hormozi (University of Athens, Greece) – Keyword-based Interfaces for Structured Data [2020]
- Tasos Arvanitis (NTUA, Greece) - Preference-aware DBMS [2012]

PhD Examining Committee

- Thanasis Georgiadis (Univ. of Ioannina) - Scalable Management of Complex Spatial Data Types [2025]
- Alexandros Zeakis (Univ. of Athens) - Effective and Efficient Entity Resolution: From Syntactic Similarity to Large Language Models (2025)
- Dimitra Papadimitriou (Univ. of Trento, Italy) - Goal-oriented recommendation [2017]

Supervisor of MSc students:

- Apostolos Koukouvinis (University of Athens, Greece) – Evaluation of Value Linking in Text-to-SQL (2025)
- Kostantinos Mpamparousis (University of Athens, Greece) – How Good are Learned Query Optimizers (2025)
- George Katsogiannis-Meimarakis (University of Athens, Greece) – Translating Structured Queries from and to Natural Language with Deep Learning [2023]
- Christos Tsapelas (University of Athens, Greece) – QPSeeker - A lightweight Neural Planner combining both data and queries through Variational Inference [2023]
- Mike Xydias (University of Athens, Greece) – Verbalising Query Results to Text [2023]
- Anna Mitsopoulou (University of Athens, Greece) – Evaluation of Text-to-SQL Systems [2024]
- Ismimi Bouliari (University of Athens, Greece) – Mitigating Popularity Bias in Recommender Systems: A Hybrid Approach with KoalaRec [2023]
- Katerina Xagorari (University of Athens, Greece) – Delay-based routing optimisation in self-defined networks with deep reinforcement learning [2023]
- Antonis Mandamadiotis (University of Athens, Greece) – Interactive Recommendations in SQL Queries using Multi-Armed Bandits [2021]

Mentor of PhD students

- Zhan Li (Brandeis University) - Exploration and Recommendation of Learning Paths [2016-2015]
- Bowen Dong (University of Illinois, USA) - Mining Online Reading Behavior Patterns [2014]
- Lei Liu (Univ. of Michigan, USA) - Generating Reading Orders over Document Collections [2013]
- Jishang Wei (UC Davis, USA) - Visual Analysis of Content Consumption [2013]
- Siarhei Bykau (Univ. of Trento, Italy) - Cold-start Problems in Recommendations [2013-2012]
- Alejandro Guerrero Gonzalez (Univ. of Monterrey, Mexico) - Service Explanation in Natural Language [2013].
- David Tamez Cantu (Univ. of Monterrey, Mexico) - Explaining Code to Casual Users [2013]
- Xianming Liu (UIUC, USA) - Product Recommendations [2013]
- Aditya Parameswaran (Stanford University) - Course Recommendations [2010-2009]
- Petros Venetis (Stanford University) - Summarizing Search Results with Tags [2009-2008]
- Steven Whang (Stanford University) - Iterative Entity resolution [2009-2007]
- Paul Heymann (Stanford University) - Social bookmarking [2008-2006]

Advisor of undergrads:

- Yannis Zervakis [2025] - Towards Semantic Query Engines: Finding a Common Ground
- Theofilos Belmpas and Orestis Gini (University of Athens) – In-depth comparison of NLIDBs [2019]
- George Katsogiannis-Meimarakis (University of Athens) – Deep Learning for NL2SQL Translation [2020]

- Andreas Kokkalis, Panagiotis Vagenas, Alexandros Zervakis (Univ. of Athens, Greece) -Translating Queries into Narratives [2012]
- Zahra Mohammadi Zadeh (Stanford University) - Data Clouds for Summarizing Searches [2009-2008]
- Benjamin Bercovitz and Robert Ikeda (Stanford University) - Flexible recommendation engine [2009-2007]
- Frans Effendi (Stanford University) - Studying Tag Spam [2007- 2006]
- Yuliya Sarkisian (Stanford University) - Models of Attacks in Social Systems [2007]
- F. Alvanaki (Univ. of Athens, Greece) - Collaborative search [2006]
- G. Stefanakis (Univ. of Athens, Greece) - Construction of structured user profiles [2006]
- H. Barbarian and J. Provataris (Univ. of Athens, Greece) - Extraction of logical database subsets [2005]

TEACHING EXPERIENCE

Since 2019 MSc course on “Database Systems”, MSc on Big data and Artificial Intelligence, (NKUA-Athens Research Centre- BRFAA)

2024 Natural Language Interfaces to Data Lecture, Università degli Studi di Modena e Reggio Emilia – Dipartimento di Ingegneria “Enzo Ferrari”, October 2024

2018 Spring 2018, 3-day Advanced Seminar on “Machine Learning Methods for Recommendations”, Harvard University

2017 Guest Speaker, CS 7290, Fall 2017: Special Topics in Data Science: Foundations in Scalable Data Management, Northeastern University, College of Computer and Information Science
Title: “Modern recommender systems: matrices, bandits, and neurons”

2017 Invited Speaker, 1st ACM Europe Summer School on Data Science/Big Data, July 13-19, 2017. Course Title: “User analytics for recommender systems”

2012 Visiting Lecturer, Doctoral School of the Information and Communication Technology, University of Trento, Italy, 2012. Course Title: “Personalized Systems: Models and Methods from an IR and DB perspective”

2004 Invited Speaker, DELOS Summer School (ISDL) in “User-Centered Design in Digital Libraries”, Pisa, 06-10 Sept., 2004. Course Title: “Personalization: Methods and Models”

2003-2000: Teaching Assistant, University of Athens, Greece. Courses at BSc and graduate levels:

- (1) Files Structure & Introduction to Databases [undergrad course, 2002-2000]
- (2) Design & Use of Databases [undergrad course, 2003]
- (3) Advanced Database Issues [postgraduate course, 2003]

PATENTS & INVENTION DISCLOSURES

Patents Granted: 19, Patent Applications: 26

[Information extraction, resolution and integration]

- A. R. Brown, M. A. Hernandez, G. Koutrika, R. Krishnamurthy, L. Popa, S. Thalamati, R. Wisnesky. Entity Integration Using High-Level Scripting Languages. United States Patent 9,535,951, January 3, 2017.
- T. Zang, G. Koutrika, E. O’Brien-Strain. Automatically Determining a Name of a Person Appearing in an Image. United States Patent 9,020,212, April 28, 2015.

[Intelligent Interfaces]

- A. Simitsis, G. Koutrika. Requests for Source Code Text. United States Patent 9,824,122, filed March 15, 2013 and issued November 21, 2017.
- G. Koutrika, C. Sayers, A. Simitsis. Converting and Input Script to A Natural Language Description. 9,342,301, May 17, 2016.
- G. Koutrika, D. Papadimitriou, S. Simske. Matching of an Input Document to Documents in a Document Collection. United States Patent 10,740,406, filed Dec 2013, issued August 11, 2020

[Recommender systems and Personalization]

- G. Koutrika, L. Liu, J. Liu, S. Simske. Learning Graph. United States Patent 10,891,334PCT/US13/78174, filed Jan 2014. Issued January 12, 2021.
- L. Liu, G. Koutrika, J. Liu. Group Analysis Using Content Data. United States Patent US10769190B2, issued September 8, 2020, filed Jan 23, 2015
- L. Liu, G. Koutrika, J. Liu. Reading difficulty level based resource recommendation. PCT/US2015/011694, Jan 16, 2015, US11238225B2, 2022
- G. Koutrika, J. Liu. Automated Content Selection. PCT/US2014/013888 – filed Jan 2014, US10664483B2, Feb 5, 2020.
- U. Chatow, L. Liu, G. Koutrika. Custom Educational Documents. PCT/US2015/012068, WO2016118119A1, Jan 20, 2015
- G. Koutrika. Product, operating system and topic based recommendations, PCT/US2015/013714, Jan 30 2015, WO2016122575A1, 2016
- L. Liu, G. Koutrika, J. Liu. Create A Heterogeneous Learner Group. PCT/US2014/049041. July 31, 2014, WO2016018336A1, 2016
- G. Koutrika, A. Simitsis. Citation Explanations. United States Patent 10,671,810, filed February 20, 2015 and issued June 2, 2020.
- G. Koutrika, U. Chatow. Associate A Learner and Learning Content - PCT/US2014/040343 – May 2014, WO2015183318A1, 2015
- L. Liu, G. Koutrika, J. Liu. External Resource Identification. 10,417,338, filed September 2014, granted September 17, 2019
- Tong Zhang, Georgia Koutrika, Jerry Liu, Steve Simske. Keyframe Annotation, United States Patent 10,007,848, filed June 2, 2015 and issued June 26, 2018.
- G. Koutrika. Analyzing Uniform Resource Locators. 9,286,408, March 15, 2016.
- G. Koutrika, Q. Lin, J. Liu. Providing supplemental content based on a selected file. 9,086,825, July 21, 2015.
- G. Koutrika, R. Vernica. Print Intent Classification. 9,019,548, April 28, 2015.

PUBLICATIONS (Google Scholar Citations as of Feb 2025: 5989 , h-index: 35)

Book:

- [2025] George Katsogiannis-Meimarakis, Anna Mitsopoulou, Mike Xydias, Georgia Koutrika: Natural Language Interfaces for Databases with Deep Learning - The Never-Ending Quest for Data Accessibility. Data-Centric Systems and Applications, Springer 2026, ISBN 978-3-032-06904-7, pp. 1-196

Book Chapters: 6

- [2015] G. Koutrika. Data Personalization. In Data Management in Pervasive Systems. Eds: Francesco Colace, Massimo De Santo, Vincenzo Moscato, Antonio Picariello, Fabio A. Schreiber, Letizia Tanca. Springer
- [2013] B. Alexe, D. Burdick, M. A. Hernández, G. Koutrika, R. Krishnamurthy, L. Popa, I. Stanoi, R. Wisnesky: High-Level Rules for Integration and Analysis of Data: New Challenges. In Search of Elegance in the Theory and Practice of Computation, Lecture Notes in Computer Science, 36-55
- [2013] G. Koutrika, E. Pitoura, K. Stefanidis. Preference-Based Query Personalization. In Advanced Query Processing, B. Catania, L.C. Jain (eds), pages 57-81, Springer
- [2012] S. Cohen, B. Kimelfeld, G. Koutrika, J. Vondrak: A Survey on Proximity Measures for Social Networks. In Search Computing. Stefano Ceri, Marco Brambilla (Eds), Lecture Notes in Computer Science, Vol 7538, 191-206, Springer
- [2006] L. Candela, D. Castelli, Y. Ioannidis, G. Koutrika, P. Pagano, S. Ross, H.-J. Schek, H. Schuldt. The Digital Library Manifesto. DELOS, ISSN 1818-8044, ISBN 2-912335-24-8

- [2005] G. Koutrika. Database Systems: A Personalized Perspective. Chapter in Encyclopedia of Database Technologies and Applications, L. Rivero, J. Doorn, V. Ferragine Ed(s), Idea Group Inc

Editorials: 15

- [2022-2023] PVLDB Vol16 Editorials, Vol1-Vol13: Georgia Koutrika, Jun Yang
- [2020] Maurizio Atzori, Georgia Koutrika, Barbara Pes, Letizia Tanca: Special issue on "Data Exploration in the Web 3.0 Age". Future Gener. Comput. Syst. 112: 1177-1179
- [2010] E. Kapetanios, G. Koutrika. Guest editorial: Special issue on collective intelligence. Information Sciences, Volume 180, Issue 1, 1-3

Refereed International Journals: 13

- [2023] G. Katsogiannis-Meimarakis, G. Koutrika. A Survey on Deep Learning Approaches for Text-to-SQL, VLDB Journal,
- [2022] E. Pitoura, K. Stefanidis, G. Koutrika. Fairness in Rankings and Recommendations: An Overview, The VLDB J. 31(3): 431-458
- [2017] G. Koutrika, Q. Lin. A Study of Web Print: What People Print in the Digital Era. ACM Transactions on the Web (TWEB), Vol. 11(4).
- [2017] D. Papadimitriou, G. Koutrika, J. Mylopoulos, Y. Velegrakis. Finding Related Forum Posts through Content Similarity over Intention-based Segmentation. IEEE TKDE, Issue 99.
- [2016] D. Papadimitriou, G. Koutrika, J. Mylopoulos, Y. Velegrakis. The Goal Behind the Action: Towards Goal-aware Systems and Applications. ACM Transactions on Database Systems, Vol. 41, No. 4.
- [2014] G. Papadakis, G. Koutrika, T. Palpanas, W. Nejdl. Meta-Blocking: Taking Entity Resolution to the Next Level. IEEE Transactions on Knowledge and Data Engineering, 26(8),1946-1960
- [2014] A. Arvanitis, G. Koutrika. PrefDB: Supporting Preferences as First-Class Citizens in Relational Databases. Transactions on Knowledge and Data Engineering, 26(6), 1430-1446
- [2011] K. Stefanidis, G. Koutrika, E. Pitoura. A Survey on Representation, Composition and Application of Preferences in Database Systems. ACM Transactions on Database Systems, 36(4)
- [2011] H. Garcia-Molina, G. Koutrika, A. Parameswaran. Information Seeking: Convergence of Search, Recommendations and Advertising. Communications of ACM, 54(11): 121-130
- [2010] G. Koutrika, Y. Ioannidis. Personalizing Queries based on Networks of Composite Preferences. ACM Transactions on Database Systems, 35(2)
- [2008] A. Simitsis, G. Koutrika, Y. Ioannidis. Précis: From Unstructured Keywords as Queries to Structured Databases as Answers. VLDB Journal, 17(1): 117-149
- [2008] G. Koutrika, F. Effendi, Z. Gyöngyi, P. Heymann, H. Garcia-Molina. Combating Spam in Tagging Systems: An Evaluation. ACM Transactions on the Web, 2(4)
- [2004] G. Koutrika, Y. Ioannidis. Rule-based query personalization in digital libraries. International Journal on Digital Libraries, Springer-Verlag, 4(1), 60-63

Refereed International Conferences: 56

- [2027] S. Eleftherakis, S. Amer-Yahia, G. Koutrika. Modeling and Studying Fairness in Recommender Systems as a Data Manipulation Problem. EDBT 2027
- [2026] A. Koukouvinis, G. Katsogiannis-Meimarakis. Comparison and Analysis of Value Linking in Text-to-SQL systems [Experiments & Analysis] SIGMOD 2026
- [2026] K. Mparmparousis, C. Tsapelas, G. Koutrika. What Drives Learned Optimizer Performance? A Systematic Evaluation. EDBT 2026
- [2026] A. Mandamadiotis, G. Koutrika, S. Amer-Yahia. Query-Driven Data Exploration with Heterogeneous Treatment Effects. ICDE 2026.

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International Workshops: 20

- [2023] C. Tsalpas, G. Katsogiannis-Meimarakis, G. Koutrika. Natural Language Data Interfaces: From Keyword Search to ChatGPT, are we there yet? BigVis in conjunction with EDBT
- [2021] S. Eleftherakis, O. Gkini, G. Koutrika. Let the Database Talk Back: Natural Language Explanations for SQL. SEADATA@VLDB2021.
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- [2018] A. Barraza-Urbina, G. Koutrika, M. d'Aquin, C. Hayes. BEARS: Towards an Evaluation Framework for Bandit-based Interactive Recommender Systems. REVEAL@ACM RecSys.
- [2018] M. Kyriakidi, G. Koutrika, Y. Ioannidis. Recommendations for Explorations based on Graphs. ExploreDB@ACM SIGMOD.
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Magazines and Invited Articles: 9

- [2021] Sihem Amer-Yahia, Georgia Koutrika, Martin Braschler, Diego Calvanese, Davide Lanti, Hendrik Lücke-Tieke, Alessandro Mosca, Tarcisio Mendes de Farias, Dimitris Papadopoulos, Yogendra Patil, Guillem Rull, Ellery Smith, Dimitrios Skoutas, Srividya Subramanian, Kurt Stockinger: INODE: Building an End-to-End Data Exploration System in Practice. SIGMOD Rec. 50(4): 23-29 (2021)
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Tutorials: 14

- [2023] G. Katsogiannis-Meimarakis, Mike Xydas, G. Koutrika. Natural Language Interfaces for Databases with Deep Learning. VLDB 2023, PVLDB Vol 16
- [2023] G. Katsogiannis-Meimarakis, Mike Xydas, G. Koutrika. Data Democratisation with Deep Learning: The Anatomy of a Natural Language Data Interface, ACM WSDM 2023.
- [2022] G. Katsogiannis-Meimarakis, G. Koutrika. Data Democratisation with Deep Learning: An Analysis of Text-to-SQL Systems, TheWebConf 2022
- [2021] G. Katsogiannis-Meimarakis, G. Koutrika. A Deep Dive into Deep Learning Approaches for Text-to-SQL Systems. ACM SIGMOD
- [2021] G. Katsogiannis-Meimarakis, G. Koutrika. Deep Learning Approaches for Text-to-SQL Systems. EDBT, 24th International Conference on Extending Database Technology.
- [2021] E. Pitoura, K. Stefanidis, G. Koutrika. Fairness-aware Methods in Rankings and Recommenders. 22nd IEEE International Conference on Mobile Data Management.

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- [2020] E. Pitoura, G. Koutrika, K. Stefanidis. Fairness in Rankings and Recommenders. EDBT, 23rd International Conference on Extending Database Technology.
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- [2015] D. Papadimitriou, Y. Velegrakis, G. Koutrika, J. Mylopoulos. Goals in Social Media, Information Retrieval and Intelligent Agents. ICDE.
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- [2005] Y. Ioannidis, G. Koutrika. Personalized Systems: Models and Methods from an IR and DB Perspective. 23rd Intl. Conference on Data Engineering, ICDE.
- [2005] Y. Ioannidis, G. Koutrika. Personalized Systems: Models and Methods from an IR and DB Perspective. 31st Intl. Conf. on Very Large Databases, VLDB, 1365

PUBLIC ENGAGEMENT AND THOUGHT LEADERSHIP

Interviews:

- How reliable is ChatGPT: [Πόσο αξιόπιστο είναι το ChatGPT; | Η ΚΑΘΗΜΕΡΙΝΗ \(kathimerini.gr\)](#). Kathimerini, 2024.
- “Η τεχνητή νοημοσύνη δεν είναι ούτε αλάνθαστη ούτε ουδέτερη” <https://utopiazone.gr/synentefxeis/i-techniti-noimosyni-den-einai-oute-alanthasti-oute-oudeteri/>
- On air (ERA Radio): on equality, science and technology: <https://webradio.ert.gr/proto-programma/06mar2022-psifiakes-kyriakes/> <https://www.athenarc.gr/en/node/5075>
- Innovation @ HP Labs “Reading analytics - we’re gaining significant new insights by analyzing how people read online” (Aug 14, 2015)
- Change the Equation, guest blog interview (April 9, 2015)
- Innovation @ HP Labs, blog interview (Feb 16, 2012)

Panels/RoundTables:

- VLDB 2025 Phd Workshop Panel
- D&I panel at EDBT/ICDT 2025
- Panelist in the “*Futuristic Data Interfaces*” panel at DASFAA, April 12 2022 moderated by K. Stockinger with Jaydeep Sen, Immanuel Trummer, Lei Zou.
- “*#BreakTheBias in Science and Technology*” panel, panelist, moderated by Elina Makri with T. Alissafi, P. Nomikou, V. Kotroni, L. Panayotopoulos. March 8, 2022
- “*AI and Data Systems: Synergies, Challenges, and Risks*”, moderator, IEEE ICDE 2021 (with: Wenyan Yu (Alibaba), Wolfram Schulte (Facebook), Tianqing Wang (Huawei), Weiwei Gong (Oracle))
- “*Computer Science: unicorns, dragons and heroes*”, moderator, Athens Science Festival 2021 , March 28, 2021
- “*Intelligent Data Exploration*”, moderator, VLDB2020, (with Kurt Stockinger, Sihem Amer-Yahia, Jignesh Patel, JP Monteiro), Sep 2, 2020 (74 participants)
- “*Is Artificial Intelligence gendered?*”, moderator, 2nd Summit on Gender Equality in Computing (GEC 2020). Participants: Vicky Charisi, Eirini Ntoutsis, George Giannakopoulos, Manolis Koubarakis
- “*Database Research in Industry: Fact, Fiction, or a Thing of the Past?*”, panelist, NorCalDB Day 2015 Panel (moderator: Alon Halevy), Santa Cruz, California, USA

- *"Data exploration: a new name for an old hat?"*, moderator, ExploreDB 2014 (Int'l Workshop on Exploratory Search in Databases and the Web), EDBT, Athens, Greece
- *"Social Computing Roundtable: Research on Arabic Social Networks: The Spring of All Changes"*, participant, in the roundtable hosted by the Qatar Computing Research Institute (QCRI) in Doha, Qatar, 2011
- *"Social sites: challenges and opportunities"*, moderator, PersDB 2011 (Int'l Workshop on Personalized Access, Profile Management, and Context Awareness), VLDB, Seattle, USA
- Panelist in the HDMS 2009 Panel on *"New data, applications and infrastructures: new challenges for the data management community"*, Athens, Greece
- Panelist in the HDMS 2007 Panel on the *"Life after the PhD: Recent Graduates, Research and Employment Opportunities"*, Athens, Greece

Schools:

- *"Data Democratization with Deep Learning: An Analysis of Text-to-SQL Systems"*, RAIS Summer School and Workshop, Sweden, September 12-16, 2022
- *"Algorithmic Fairness"*, PhD-summer school 2022 on Big Data, Black Forest, Germany, June 20-24, 2022
- *"Fairness in Algorithmic Systems: A Reality or a Fantasy?"*, 1st DEDSSchool on *"Ethical and Legal Aspects on Data"*, April 4 – 8, 2022
- *"Fairness in Ranking and Recommenders: An Overview"* 1st ACM-W Greek Chapter Winter School on *"Fairness in AI"* (with E. Pitoura and K. Stefanidis), February 24-25, 2022.

Documentaries

- *In The Image of Human: Documentary on Artificial Intelligence* (director Nicole Alexandropoulos)

By invitation

- *"Reimagining Databases in the Age of LLMs"*, Europe-China "Database Future Trends" Event, May 29-30, 2025, Athens
- *Girls in Digital*, Webinar, *"The future of Work: AI and Career Development"*, Code4Europe, EU Code Week, May 26, 2025
- Dagstuhl Seminar 26161 on *Managing Vector Data for Retrieval Augmented Generation: Systems and Algorithms*, April 12-16, 2026

Recent Invited Talks (selected list):

- *"Will AI Conquer the World - or at Least Data Management?"* 27th IEEE International Conference on Mobile Data Management, June 29th - July 2nd
- *"From Cost Models to Semantic Operators: How AI Is Rewriting the Database Stack"*, 34th Symposium on Advanced Database Systems, Senigalia, Italy, June 2026
- *"LLMs and Databases: The Good, The Bad and the Ugly"*. DAGSTUHL Seminar: Managing Vector Data for Retrieval Augmented Generation, 2026
- *"Reimagining Databases in the Age of LLMs"*, MIDAS Workshop@SIGMOD 2025.
- *"Navigating the Challenges of AI-Driven Data Processing"*, 19th ACM International Conference on Distributed and Event-based Systems, Goteborg, June 2025
- *Predict, Optimize, Decarbonize: AI and Generative AI in Energy Future: "The Potential of AI for Energy Management in Europe"*, Energy Transition Symposium- 10th HAEE Energy Transition Symposium, 3-5 June 2025
- *"Cosmic Conversations: Unleashing the Power of Natural Language Interfaces in Science and Astrophysics"*, IAUS 397: UniversAI: Exploring the Universe with Artificial Intelligence, Athens 2025
- *«Κοσμικοί Διάλογοι: Όταν η Τεχνητή Νοημοσύνη Μιλάει με τα Αστέρια»*, IAUS 397: UniversAI: Exploring the Universe with Artificial Intelligence, Εθνικό Αστεροσκοπείο Αθηνών, Κέντρο Επισκεπτών, 2025

- “Unlocking Data with Words: The Epic Journey of Natural Language Interfaces”. University of Pittsburgh’s Computer Science department, CS Colloquium, (March 2025)
- “Natural Language Data Interfaces: A Data Access Odyssey”. Keynote, EDBT 2024, GEC 2024 (June 2024)
- “Democratizing Data Access: The Promise of Data Markets”, Keynote, Symposium on Data Markets (SDM) – VLDB 2023
- “Democratizing Data Access: What if we could just talk to our data?” Keynote, International Conference on Theory and Practice of Digital Libraries, TPDL 2022, Padua, September 20 – 23, 2022
- “Fairness in Algorithmic Systems: A Reality or a Fantasy?”, A Distinguished Lecture Series Talk, Hong Kong Baptist University, <https://60anni.sci.hkbu.edu.hk/distinguished-lecture-series/>, May 3, 2022
- “Intelligent Data Assistants: Democratizing Data Access”, TU Berlin/BIFOLD Research Colloquium, April 4, 2022.
- ACM-W NITK, "The Rise of Intelligent Data Assistants", ACM Distinguished Speaker, April 9, 2021
- "The Rise of Intelligent Data Assistants", Invited talk at Trustworthy Data Science and AI Webinar Series, Simon Fraser University, April 8, 2021
- "The Rise of Intelligent Data Assistants: Democratizing Data Access", Keynote at BigVis2021@EDBT, March 23, 2021.
- “Democratizing Data Access Through Intelligent Data Exploration Tools”. Keynote at ACM WomENCourage 2020, "The Big Promise of Big Data Analytics"
- “A Spark-based Intelligent Assistant: Making Data Exploration in Natural Language Real”. Spark + AI Summit Europe, RAI Amsterdam Convention Center, 15-17 October, 2020.
- Invited speaker on “Databases & People: Let’s move on From Baby Talk” Joint EDBT/ICDT session on Challenges in Data Management, 26-29 March 2018
- Recommender Systems: It’s Not Just About User Preferences – Visa Research, 17 Nov 2017
- Bringing Preferences and Recommendations closer to the Database – Huawei, 1 Nov 2017