CURRICULUM VITAE
Prof. Christos Tryfonopoulos

1 PERSONAL DETAILS

1.1 Contact information

Address:	Department of Informatics & Telecommunications
	Faculty of Economics & Technology
	University of the Peloponnese
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1.2 Other details

Date of birth:	June 27, 1978
Marital status:	Married with two children

2 RESEARCH INTERESTS

Scientific databases	scientometrics
	scientific knowledge graphs
	open science
Digital libraries	architectures
	content retrieval/filtering
	preservation & archival
Information management	information retrieval/filtering
	data mining & machine learning applications
	data models and query languages
	data & user anonymity
Data systems	distributed/p2p/multi-agent computing
	distributed social networks
	(bio)medical databases

3 LANGUAGE SKILLS

English │ Fluently – Cambridge Certificate of Proficiency in English

German │ Competent – Grundstuffe in Deutsh als Fremdsprache aus Göete Institut

4 EDUCATION

July 2006 │ PhD
│ *Department of Electronic and Computer Engineering*
│ *Technical University of Crete*
│ PhD thesis: "Peer-to-Peer Techniques for Web Information Retrieval and
│ Filtering"

November 2002 │ MSc
│ *Department of Electronic and Computer Engineering*
│ *Technical University of Crete*
│ MSc thesis: "Agent-Based Textual Information Dissemination: Data
│ Models, Query Languages, Algorithms and Computational Complexity"

October 2000 │ BSc
│ *Department of Computer Science*
│ *University of Crete*
│ BSc thesis: "Design and Implementation of a Project Management
│ System using Relational Databases"

5 EMPLOYMENT & RESEARCH EXPERIENCE

5.1 Employment

April 2023 │ Professor
– today │ *Department of Informatics & Telecommunications*
│ Associate Professor in Web Technologies at the Department of Informatics &
│ Telecommunications, University of the Peloponnese and researcher at the Software and
│ Database Systems Laboratory, University of the Peloponnese.

November 2018 │ Associate Professor
– April 2023 │ *Department of Informatics & Telecommunications*
│ Associate Professor in Web Technologies at the Department of Informatics &
│ Telecommunications, University of the Peloponnese and researcher at the Software and
│ Database Systems Laboratory, University of the Peloponnese.

December 2018 │ Director
– December 2019 │ *MSc programme in "Space Science Technologies & Applications"*
│ Co-organised by the Department of Informatics & Telecommunications, University of the
│ Peloponnese and the National Observatory of Athens.

February 2013 │ Assistant Professor
October 2018 │ *Department of Informatics & Telecommunications*
│ Assistant Professor in Web Technologies at the Department of Informatics &
│ Telecommunications, University of the Peloponnese and researcher at the Software and
│ Database Systems Laboratory, University of the Peloponnese.

September 2014 *– February 2015*	Visiting Researcher *Max-Planck Institute for Informatics* Visiting researcher during sabbatical leave at the Databases and Information Systems Department, Max-Planck Institute for Informatics
March 2013 *– today*	External Evaluator *European Commision* External evaluator of research proposals for H2020 and FP7 ICT FET-Open.
March 2009 *– February 2013*	Lecturer *Department of Informatics & Telecommunications* Lecturer in Web Technologies at the Department of Computer Science and Technology, University of the Peloponnese and researcher at the Software and Database Systems Laboratory, University of the Peloponnese.
January 2007 *– August 2008*	Research Group Coordinator *Max-Planck Institute for Informatics* Coordinator of the "P2P Data Management" group at the Databases and Information Systems Department, Max-Planck Institute for Informatics.
September 2006 *– January 2007*	Postdoctoral Researcher *Max-Planck Institute for Informatics* Postdoctoral researcher, working on P2P data management (architectures, information retrieval/filtering) at the Databases and Information Systems Department, Max-Planck Institute for Informatics. | Supervisor: Prof. G. Weikum
November 2005 *– December 2005*	Visiting Researcher *Max-Planck Institute for Informatics* Visiting researcher at the Databases and Information Systems Department, Max-Planck Institute for Informatics (position paid by DELOS Network of Excellence research exchange grant). | Supervisor: Prof. G. Weikum
June 2000 *– August 2006*	Research Associate *Technical University of Crete* Research associate at the Intelligent Systems Lab, Department of Electronic and Computer Engineering, Technical University of Crete.

5.2   R&D projects

February 2021 *– November 2023*	Principal Investigator ENIRISST+ project "Enhanced Intelligent Research Infrastructure for Shipping, Supply Chain, Transport and Logistics". National Strategic Reference Framework (NSRF) - Operational Programme Competitiveness, Entrepreneurship and Innovation. | Budget: 450K
September 2021 *– November 2023*	Deputy Principal Investigator REHABOTICS project "A robotic system for the functional rehabilitation of hands in neurological patients". National Strategic Reference Framework (NSRF) - Operational Programme Competitiveness, Entrepreneurship and Innovation.
May 2021 *– today*	Research Associate SodaSense project "Advanced big data management with applications to mobility, weather and agriculture".

National Strategic Reference Framework (NSRF) - Regional Operational Programme Peloponnese.

March 2020 – November 2023	**Principal Investigator** WeCare project "Support structures for students with special needs and sensitive population groups". National Strategic Reference Framework (NSRF) - Operational Programme Human Resources Development, Education and Lifelong Learning. | Budget: 506K
February 2019 – February 2023	**Principal Investigator** ENIRISST project "Intelligent Research Infrastructure for Shipping, Supply Chain, Transport and Logistics". National Strategic Reference Framework (NSRF) - Operational Programme Competitiveness, Entrepreneurship and Innovation. | Budget: 136K
October 2019 – March 2023	**Research Associate** FORESIGHT project "Advanced cyber-security simulation platform for preparedness training in Aviation, Power-grid and Naval environments". Horizon 2020 - Innovation Action.
May 2018 – July 2021	**Research Associate** Cyber-Trust project 'Advanced Cyber-Threat Intelligence, Detection, and Mitigation Platform for a Trusted Internet of Things". Horizon 2020 - Research and Innovation Action.
May 2019 – February 2020	**Research Associate** TRIPMENTOR project "Interactive Tourist Guide for the Attica region". National Strategic Reference Framework (NSRF) - Operational Programme Competitiveness, Entrepreneurship and Innovation.
March 2014 – October 2015	**Research Associate** E-Tourism project "Innovative web/mobile GIS/LBS e-Services with Augmented Reality features for the tourism sector". National Strategic Reference Framework (NSRF) - Operational Programme Competitiveness &, Entrepreneurship.
January 2013 – October 2015	**Research Associate** MODIP project "Quality Assurance Unit of the University of Peloponnese". National Strategic Reference Framework (NSRF) - Operational Programme Education and Lifelong Learning.
January 2013 – December 2014	**Principal Investigator** SciNet project "Social Networks for the Collection, Management and Exchange of Scientific Information". National Strategic Reference Framework (NSRF) - Operational Programme Human Resources Development.
August 2012 – January 2013	**Research Associate** AdminRoadmap project "Development of an administrative road-map for the improvement of the administrative services of the University of the Peloponnese".

	National Strategic Reference Framework (NSRF) - Operational Programme Public Administration Reform.
January 2011 – December 2011	Principal Investigator RemoteMed project "An Integrated Platform for Multi-Centre (Bio)Medical Studies". Attikon Hospital and Hellenic Society for Chemotherapy.
April 2004 – August 2006	Research Associate EVERGROW project "Ever-growing, global, scale-free networks, their provisioning, repair and unique functions". EU 6th Framework Programme IST/FET.
November 2002 – July 2006	Research Associate Heraclitus project "Peer-to-Peer Techniques for Web Information Retrieval and Filtering". Greek Ministry of Education - General Secretariat for Research & Technology (GSRT).
July 2000 – June 2003	Research Associate DIET project "Decentralised Information Ecosystem Technologies". EU 5th Framework Programme IST/FET.

6 MANAGERIAL POSITIONS

September 2021 – today	Department Chair Chair of the Department of Informatics & Telecommunications, University of the Peloponnese
January 2011 – today	Principal Investigator in R&D projects Managed over 1.2M euros as a principal investigator of R&D projects and participated/managed in 15 national and european projects.
November 2018 – November 2019	Director of MSc programme Director of the joint MSc program in Space Science Technologies and Applications, co-organised between University of the Peloponnese and the National Observatory of Athens.
September 2019 – today	Steering committee member of MSc programme Member of the steering committee of the joint MSc program in Data Science, co-organised between University of the Peloponnese and the National Centre for Scientific Research "Demokritos".
September 2015 – September 2018	Steering committee member of MSc programme Member of the steering committee of the MSc program in Computer Science organised by the Department of Informatics & Telecommunications, University of the Peloponnese.

7 PUBLICATIONS

7.1 Journals and book chapters

[17]   Fotios K. Anagnostopoulos, Spyros Rigas, Michalis Papachristou, Ioannis Chaniotis, Ioannis Anastasiou, Christos Tryfonopoulos, and Paraskevi Raftopoulou. "A novel AI framework for PM Pollution Prediction applied to a Greek port city." In: *Atmosphere* 14.9 (2023).

[16]   Ioannis Papoutsis, Nikolaos-Ioannis Bountos, Angelos Zavras, Dimitrios Michail, and Christos Tryfonopoulos. "Benchmarking and scaling of deep learning models for land cover image classification". In: *Journal of Photogrammetry and Remote Sensing, Elsevier (accepted, to appear)* (2022).

[15]   Konstantinos I. Roumeliotis, Nikolaos D. Tselikas, and Christos Tryfonopoulos. "Greek Hotels' Web Traffic: A Comparative Study Based on Search Engine Optimization Techniques and Technologies". In: *Digital* 2.3 (2022), pp. 379–400.

[14]   Damianos P. Sakas, Nikolaos T. Giannakopoulos, Nikos Kanellos, and Christos Tryfonopoulos. "Digital Marketing Enhancement of Cryptocurrency Websites through Customer Innovative Data Process". In: *Processes* 5.10 (2022).

[13]   Serafeim Chatzopoulos, Thanasis Vergoulis, Theodore Dalamagas, and Christos Tryfonopoulos. "VeTo+: Improved Expert Set Expansion in Academia". In: *International Journal on Digital Libraries (IJID), Springer Nature* 23 (2021), pp. 57–75.

[12]   Serafeim Chatzopoulos, Thanasis Vergoulis, Ilias Kanellos, Theodore Dalamagas, and Christos Tryfonopoulos. "Further Improvements on Estimating the Popularity of Recently Published Papers". In: *Quantitative Science Studies, MIT Press* (Nov. 2021), pp. 1–36.

[11]   E. Giannitsioti, A. Pefanis, C. Gogos, A. Lekkou, G.N. Dalekos, N. Gatselis, S. Georgiadou, P. Nikou, A. Vrettou, A. Rigopoulos, C. Tryfonopoulos, T. Tsaganos, E. Karofilakis, C. Psarrakis, M. Argyriou, P. Gargalianos-Kakolyris, G. Adamis, P. Lourida, D. Kofteridis, A. Andrianaki, C. Loupa, E. Kostis, D. Sinapidis, S. Sympardi, N. Alexiou, I. Karaiskos, A. Masgala, E. Maltezos, P. Panagopoulos, V. Sachpekidis, C. Evdoridis, N.V. Sipsas, G. Daikos, and H. Giamarellou. "Evolution of epidemiological characteristics of infective endocarditis in Greece". In: *International Journal of Infectious Diseases (IJID), Springer* 106 (2021), pp. 213–220.

[10]   Paris Koloveas, Thanasis Chantzios, Sofia Alevizopoulou, Spiros Skiadopoulos, and Christos Tryfonopoulos. "inTIME: A Machine Learning-Based Framework for Gathering and Leveraging Web Data to Cyber-Threat Intelligence". In: *Electronics* 10.7 (2021).

[9]   Kimon Deligiannis, Paraskevi Raftopoulou, Christos Tryfonopoulos, Nikos Platis, and Costas Vassilakis. "Hydria: An Online Data Lake for Multi-Faceted Analytics in the Cultural Heritage Domain." In: *Big Data and Cognitive Computing* 4.2 (2020).

[8]   Lefteris Zervakis, Christos Tryfonopoulos, Spiros Skiadopoulos, and Manolis Koubarakis. "Query Reorganisation Algorithms for Efficient Boolean Information Filtering". In: *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 29.2 (2017), pp. 418–432.

[7]   Giorgos Poulis, Aris Gkoulalas-Divanis, Grigorios Loukides, Spiros Skiadopoulos, and Christos Tryfonopoulos. "SECRETA: A Tool for Anonymizing Relational, Transaction and RT-Datasets". In: *Medical Data Privacy Handbook*. Ed. by Aris Gkoulalas-Divanis and Grigorios Loukides. Springer, 2015, pp. 83–109.

[6]   Christos Tryfonopoulos, Stratos Idreos, Manolis Koubarakis, and Paraskevi Raftopoulou. "Distributed Large-Scale Information Filtering". In: *Transactions on Large-Scale Data- and Knowledge-Centered Systems (TLDKS), Springer* 13 (2014), pp. 91–122.

[5]   Paraskevi Raftopoulou, Euripides G.M. Petrakis, and Christos Tryfonopoulos. "Rewiring Strategies for Semantic Overlay Networks". In: *Distributed and Parallel Databases (DAPD), Springer* 26.2-3 (2009), pp. 181–205.

[4]   Christos Tryfonopoulos, Manolis Koubarakis, and Yannis Drougas. "Information Filtering and Query Indexing for an Information Retrieval Model". In: *ACM Transactions on Information Systems (TOIS)* 27.2 (2009).

[3]   Christos Tryfonopoulos, Christian Zimmer, Manolis Koubarakis, and Gerhard Weikum. "Architectural Alternatives for Information Filtering in Structured Overlay Networks". In: *IEEE Internet Computing* 11.4 (2007), pp. 24–34.

[2]   Manolis Koubarakis, Spiros Skiadopoulos, and Christos Tryfonopoulos. "Logic and Computational Complexity for Boolean Information Retrieval". In: *IEEE Transactions on Knowledge and Data Engineering (TKDE)* 18.12 (2006), pp. 1659–1666.

[1]   Manolis Koubarakis, Christos Tryfonopoulos, Stratos Idreos, and Yannis Drougas. "Selective Information Dissemination in P2P Networks: Problems and Solutions". In: *SIGMOD Record, Special Issue on Peer-to-Peer Data Management* 32.3 (2003). Ed. by Karl Aberer, pp. 71–76.

7.2   Conferences

[48]   Serafeim Chatzopoulos, Thanasis Vergoulis, Dimitrios Skoutas, Theodore Dalamagas, Christos Tryfonopoulos, and Panagiotis Karras. "Atrapos: Real-Time Evaluation of Metapath Query Workloads". In: Austin, TX, USA, Apr. 2023.

[47]   Kimon Deligiannis, Christos Tryfonopoulos, Paraskevi Raftopoulou, Nikos Platis, and Costas Vassilakis. "EnQuest: A Cloud Datalake Infrastructure for Heterogeneous Analytics in Maritime and Tourism Domains". In: *Proceedings of the 12th International Conference on Data Science, Technology and Applications (DATA)*. Rome, Italy, July 2023.

[46]   George Fotopoulos, Paris Koloveas, Paraskevi Raftopoulou, and Christos Tryfonopoulos. "Comparing Data Store Performance for Full-Text Search: to SQL or to NoSQL?" In: *Proceedings of the 12th International Conference on Data Science, Technology and Applications (DATA)*. Rome, Italy, July 2023.

[45]   Paris Koloveas, Serafeim Chatzopoulos, Christos Tryfonopoulos, and Thanasis Vergoulis. "BIP! NDR (NoDoiRefs): A Dataset of Citations From Papers Without DOIs in Computer Science Conferences and Workshops". In: *Proceedings of the 27th International Conference on Theory and Practice of Digital Libraries (TPDL)*. Zadar, Croatia, Sept. 2023.

[44]   Angelos Zavras, Ioannis Papoutsis, Dimitrios Michail, Christos Tryfonopoulos, and Begum Demir. "Leveraging Class Label Semantic Information for Zero-Shot Land Use Land Cover Scene Classification". In: *Proceedings of the 43rd IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. Pasadena, California, USA, July 2023.

[43]   Fotios K. Anagnostopoulos, Spyros Rigas, Michalis Papachristou, Christos Tryfonopoulos, and Ioannis Chaniotis. "Forecasting PM2.5 concentration in port-cities". In: *Proceedings of the 11th International Aerosol Conference (IAC)*. Athens, Greece, Sept. 2022.

[42]   Fotios K. Anagnostopoulos, Spyros Rigas, Christos Tryfonopoulos, Michalis Papachristou, Ioannis Chaniotis, and Paraskevi Raftopoulou. "Towards a General Forecasting Framework for Particulate Matter within Urban Environments". In: *Proceedings of the American Geophysical Union Conference (AGU)*. Chigaco, USA, Dec. 2022.

[41]   Christos Tryfonopoulos and Amalia Polydoropoulou. "ENIRISST: the first data infrastructure for shipping and transport in Greece". In: *Proceedings of the 11th International Conference on Data Science, Technology and Applications (DATA)*. Lisbon, Portugal, July 2022.

[40]   Serafeim Chatzopoulos, Thanasis Vergoulis, Theodore Dalamagas, and Christos Tryfonopoulos. "VeTo-web: A Recommendation Tool for the Expansion of Sets of Scholars". In: *Proceedings of the 21st Joint Conference on Digital Libraries (JCDL)*. Urbana-Champaign, USA, Sept. 2021, pp. 334–335.

[39] Serafeim Chatzopoulos, Thanasis Vergoulis, Panagiotis Deligiannis, Dimitrios Skoutas, Theodore Dalamagas, and Christos Tryfonopoulos. "SciNeM: A Scalable Data Science Tool for Heterogeneous Network Mining". In: *Proceedings of the 24th International Conference on Extending Database Technology (EDBT)*. Nicosia, Cyprus, Mar. 2021, pp. 654–657.

[38] Amalia Polydoropoulou, Manolis Maragkoudakis, Ioanna Pagoni, Athena Tsirimpa, Annitsa Koumoutsidi, Ioannis Tsouros, and Christos Tryfonopoulos. "Setting the Basis and Designing the Data Architecture for the ENIRISST Research Infrastructure". In: *Proceedings of the 14th Balkan Conference on Operational Research (BALCOR)*. Thessaloniki, Greece, Oct. 2020.

[37] Thanasis Vergoulis, Serafeim Chatzopoulos, Theodore Dalamagas, and Christos Tryfonopoulos. "VeTo: Expert Set Expansion in Academia". In: *Proceedings of the 24th International Conference on Theory and Practice of Digital Libraries (TPDL)*. Lyon, France, Aug. 2020, pp. 48–61.

[36] Lefteris Zervakis, Vinay Setty, Christos Tryfonopoulos, and Katja Hose. "Efficient Continuous Multi-Query Processing over Graph Streams". In: *Proceedings of the 23rd International Conference on Extending Database Technology (EDBT)*. Copenhagen, Denmark, Mar. 2020, pp. 13–24.

[35] Thanasis Chantzios, Paris Koloveas, Spiros Skiadopoulos, Nikos Kolokotronis, Christos Tryfonopoulos, Vasiliki-Georgia Bilali, and Dimitris Kavallieros. "The quest for the appropriate cyber-threat intelligence sharing platform". In: *Proceedings of the 8th International Conference on Data Science, Technology and Applications (DATA)*. Prague, Czech Republic, July 2019, pp. 369–376.

[34] Thanasis Chantzios, Lefteris Zervakis, Spiros Skiadopoulos, and Christos Tryfonopoulos. "Ping - A customizable, open-source information filtering system for textual data". In: *Proceedings of the 13th ACM International Conference on Distributed and Event-based Systems (DEBS)*. Darmstadt, Germany, June 2019, pp. 228–231.

[33] Serafeim Chatzopoulos, Panagiotis Deligiannis, Thanasis Vergoulis, Ilias Kanellos, Christos Tryfonopoulos, and Theodore Dalamagas. "SciTo trends: visualising scientific topic trends". In: *Proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries (TPDL)*. Oslo, Norway, Sept. 2019, pp. 393–396.

[32] E. Giannitsioti, A. Pefanis, C. Gogos, A. Lekkou, G. Dalekos, N. Gatselis, S. Georgiadou, P. Nikou, A. Vrettou, A. Rigopoulos, C. Tryfonopoulos, T. Tsaganos, M. Argyriou, P. Gargalianos-Kakolyris, G. Adamis, P. Lourida, D. Kofteridis, A. Adrianaki, C. Loupa, E. Kostis, D. Sinapidis, S. Sympardi, N. Alexiou, I. Karaiskos, A. Masgala, E. Maltezos, P. Panagopoulos, V. Sachpekidis, K. Evdoridis, N. Sipsas, G. Daikos, and H. Giamarellou. "Early surgery for infective endocarditis: results from a multi-centre nationwide epidemiological study". In: *Proceedings of the International Society of Cardiovascular Infectious Diseases Symposium (ISCVID)*. Lausanne, Switzerland, June 2019, p. 111.

[31] Charis Kotsiopoulos, Ioannis Doudoumis, Paraskevi Raftopoulou, and Christos Tryfonopoulos. "DaST: An Online Platform for Automated Exercise Generation and Solving in the Data Science Domain". In: *Proceedings of the 8th Computer Science Education Research Conference (CSERC)*. Larnaca, Cyprus, Nov. 2019, pp. 104–109.

[30] Thanasis Vergoulis, Serafeim Chatzopoulos, Ilias Kanellos, Panagiotis Deligiannis, Christos Tryfonopoulos, and Theodore Dalamagas. "BIP! Finder: Facilitating Scientific Literature Search by Exploiting Impact-Based Ranking". In: *Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM)*. Beijing, China, Nov. 2019, pp. 2937–2940.

[29] Joanna Asia Biega, Krishna P. Gummadi, Ida Mele, Dragan Milchevski, Christos Tryfonopoulos, and Gerhard Weikum. "R-Susceptibility: An IR-Centric Approach to Assessing Privacy Risks for Users in Online Communities". In: *Proceedings of the 39th Annual International ACM SIGIR Conference*. Pisa, Italy, July 2016, pp. 365–374.

[28]   Lefteris Zervakis, Christos Tryfonopoulos, Spiros Skiadopoulos, and Manolis Koubarakis. "Full-text Support for Publish/Subscribe Ontology Systems". In: *Proceedings of the Extended Semantic Web Conference (ESWC)*. Heraklion, Greece, May 2016, pp. 233–249.

[27]   Dimitris Giouroukis, Nikos Platis, and Christos Tryfonopoulos. "PViz: Visualising P2P Multi-Agent Simulations". In: *Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. Istanbul, Turkey, May 2015, pp. 1945–1946.

[26]   Christos Tryfonopoulos, Paraskevi Raftopoulou, Vinay Setty, and Argiris Xiros. "Towards Content-Based Publish/Subscribe for Distributed Social Networks". In: *Proceedings of the International Conference on Distributed Event-Based Systems (DEBS)*. Oslo, Norway, June 2015, pp. 340–343.

[25]   Amalia Tsafara, Christos Tryfonopoulos, Spiros Skiadopoulos, and Lefteris Zervakis. "Cloud-Based Data and Knowledge Management for Multi-Centre Biomedical Studies". In: *Proceedings of the International Conference on Knowledge Capture (K-CAP)*. Palisades NY, USA, Oct. 2015, pp. 1–4.

[24]   Giorgos Poulis, Aris Gkoulalas-Divanis, Grigorios Loukides, Spiros Skiadopoulos, and Christos Tryfonopoulos. "SECRETA: A System for Evaluating and Comparing RElational and Transaction Anonymization algorithms". In: *Proceedings of the 17th International Conference on Extending Database Technology (EDBT)*. Athens, Greece, Mar. 2014, pp. 620–623.

[23]   Jenny Rompa, Christos Tryfonopoulos, Costas Vassilakis, and George Lepouras. "Mindmap-Inspired Semantic Personal Information Management". In: *Proceedings of the 17th International Conference on Extending Database Technology (EDBT)*. Athens, Greece, Mar. 2014, pp. 608–611.

[22]   Dionisis Kontominas, Paraskevi Raftopoulou, Christos Tryfonopoulos, and Euripides G.M. Petrakis. "DS4: A Distributed Social and Semantic Search System". In: *Proceedings of 35th European Conference on Information Retrieval (ECIR)*. Moscow, Russia, Mar. 2013, pp. 832–836.

[21]   Paraskevi Raftopoulou, Christos Tryfonopoulos, Euripides G.M. Petrakis, and Nikos Zevlis. "DS4: Introducing Semantic Friendship in Distributed Social Networks." In: *Proceedings of the 21st International Conference on Cooperative Information Systems (CoopIS)*. Graz, Austria, Sept. 2013, pp. 185–203.

[20]   Amalia Tsafara, Christos Tryfonopoulos, and Spiros Skiadopoulos. "CloudStudy: A Cloud-Based System for Supporting Multi-Centre Studies". In: *Proceedings of the 13th IEEE International Conference on BioInformatics and BioEngineering (BIBE)*. Chania, Greece, Nov. 2013, pp. 1–4.

[19]   Lefteris Zervakis, Christos Tryfonopoulos, Antonios Papadakis-Pesaresi, Manolis Koubarakis, and Spiros Skiadopoulos. "Full-text Support for Publish/Subscribe Ontology Systems". In: *Proccedings of the Extended Semantic Web Conference (ESWC)*. Crete, Greece, May 2012.

[18]   Jenny Rompa, Giorgos Lepouras, Costas Vassilakis, and Christos Tryfonopoulos. "OntoFM: A Personal Ontology-based File Manager for the Desktop". In: *Proccedings of the International Semantic Web Conference (ISWC)*. Bonn, Germany, Oct. 2011.

[17]   Christos Tryfonopoulos and Laura Maria Andreescu. "Pricing Information Goods in Distributed Agent-based Information Filtering". In: *Proceedings of the 19th International Conference on Cooperative Information Systems (CoopIS)*. Crete, Greece, Oct. 2011, pp. 163–181.

[16]   Avishek Anand, Srikanta Bedathur, Klaus Berberich, Ralf Schenkel, and Christos Tryfonopoulos. "EverLast: A Distributed Architecture for Preserving the Web". In: *Proceedings of the Joint Conference on Digital Libraries (JCDL)*. Austin, Texas, June 2009, pp. 331–340.

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[15] Michael Backes, Marek Hamerlik, Alessandro Linari, Matteo Maffei, Christos Tryfonopoulos, and Gerhard Weikum. "Anonymity and Censorship Resistance in Unstructured Overlay Networks". In: *Proceedings of the 17th International Conference on Cooperative Information Systems (CoopIS)*. Vilamoura, Portugal, Nov. 2009, pp. 147–164.

[14] Michael Backes, Marek Hamerlik, Alessandro Linari, Matteo Maffei, Christos Tryfonopoulos, and Gerhard Weikum. "Anonymous and Censorship-resistant Content-sharing in Unstructured Overlays". In: *Proceedings of the 27th Annual ACM Symposium on Principles of Distributed Computing (PODC)*. Toronto, Canada, Aug. 2008, p. 429.

[13] Paraskevi Raftopoulou, Euripides G.M. Petrakis, Christos Tryfonopoulos, and Gerhard Weikum. "Information Retrieval and Filtering over Self-Organising Digital Libraries". In: *Proceedings of the 12th European Conference on Research and Advanced Technology for Digital Libraries (ECDL)*. Aarhus, Denmark, Sept. 2008, pp. 320–333.

[12] Christian Zimmer, Johannes Heinz, Christos Tryfonopoulos, and Gerhard Weikum. "P2P Information Retrieval and Filtering with MAPS". In: *Proccedings of the IEEE International Conference on Peer-to-Peer Computing (P2P)*. Aachen, Germany, Sept. 2008, pp. 84–85.

[11] Christian Zimmer, Christos Tryfonopoulos, Klaus Berberich, Manolis Koubarakis, and Gerhard Weikum. "Approximate Information Filtering in Peer-to-Peer Networks". In: *Proceedings of the 9th Web Information Systems Engineering (WISE) Conference*. Auckland, New Zealand, Sept. 2008, pp. 6–19.

[10] Christian Zimmer, Christos Tryfonopoulos, and Gerhard Weikum. "Exploiting Correlated Keywords to Improve Approximate Information Filtering". In: *Proceedings of the 31st Annual International ACM SIGIR Conference*. Singapore, July 2008, pp. 323–330.

[9] Christian Zimmer, Christos Tryfonopoulos, and Gerhard Weikum. "Efficient Search and Approximate Information Filtering in a Distributed Peer-to-Peer Environment of Digital Libraries". In: *Proceedings of the DELOS Conference on Digital Libraries*. Pisa, Italy, Feb. 2007.

[8] Christian Zimmer, Christos Tryfonopoulos, and Gerhard Weikum. "MinervaDL: An Architecture for Information Retrieval and Filtering in Distributed Digital Libraries". In: *Proceedings of the 11th European Conference on Research and Advanced Technology for Digital Libraries (ECDL)*. Budapest, Hungary, Sept. 2007, pp. 148–160.

[7] Stratos Idreos, Christos Tryfonopoulos, and Manolis Koubarakis. "Distributed Evaluation of Continuous Equi-join Queries over Large Structured Overlay Networks". In: *Proceedings of the 22nd International Conference on Data Engineering (ICDE)*. Atlanda, USA, Apr. 2006, pp. 43–54.

[6] Christos Tryfonopoulos, Stratos Idreos, and Manolis Koubarakis. "LibraRing: An Architecture for Distributed Digital Libraries Based on DHTs". In: *Proceedings of the 9th European Conference on Research and Advanced Technology for Digital Libraries (ECDL)*. Vienna, Austria, Sept. 2005, pp. 25–36.

[5] Christos Tryfonopoulos, Stratos Idreos, and Manolis Koubarakis. "Publish/Subscribe Functionality in IR Environments using Structured Overlay Networks". In: *Proceedings of the 28th Annual International ACM SIGIR Conference*. Salvador, Brazil, Aug. 2005, pp. 322–329.

[4] Stratos Idreos, Manolis Koubarakis, and Christos Tryfonopoulos. "P2P-DIET: An Extensible P2P Service that Unifies Ad-hoc and Continuous Querying in Super-Peer Networks". In: *Proceedings of the ACM SIGMOD Conference*. Paris, France, June 2004, pp. 933–934.

[3] Stratos Idreos, Manolis Koubarakis, and Christos Tryfonopoulos. "P2P-DIET: One-Time and Continuous Queries in Super-Peer Networks". In: *Proceedings of the 9th International Conference on Extending Database Technology (EDBT)*. Heraklion, Greece, Mar. 2004, pp. 851–853.

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[2] Christos Tryfonopoulos, Manolis Koubarakis, and Yannis Drougas. "Filtering Algorithms for Information Retrieval Models with Named Attributes and Proximity Operators". In: *Proceedings of the 27th Annual International ACM SIGIR Conference*. Sheffield, UK, July 2004, pp. 313–320.

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7.3 International workshops

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[14] Paris Koloveas, Thanasis Chantzios, Christos Tryfonopoulos, and Spiros Skiadopoulos. "A crawler architecture for harvesting the clear, social, and dark web for IoT-related cyber-threat intelligence." In: *Proceedings of the International Workshop on Cyber Security Resilience in the Internet of Things (CSRIoT @ IEEE Services)*. Milan, Italy, July 2019.

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[8]   Christos Tryfonopoulos, Stratos Idreos, and Manolis Koubarakis. "Publish/Subscribe Functionalities for Future Digital Libraries using Structured Overlay Networks". In: *Proceedings of the 8th International Workshop of the DELOS Network of Excellence on Digital Libraries on Future Digital Library Management Systems*. Schloss Dagstuhl, Germany, Mar. 2005.

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[3]   Manolis Koubarakis and Christos Tryfonopoulos. "Peer-to-peer Agent Systems for Textual Information Dissemination: Algorithms and Complexity". In: *Proceedings of the UK Workshop on Multiagent Systems (UKMAS)*. Liverpool, UK, Dec. 2002.

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7.4   National venues

[16]   Nikolia Tsapalou, Mania Alexaki, and Christos Tryfonopoulos. "WeCare in University of the Peloponnese as a means of reducing social exclusion in education". In: *Proceedings of the 5th Hellenic Conference on Sociology of Education (SocEdu)*. Patras, Greece, Oct. 2022.

[15] Christos Tryfonopoulos. "A Methodology for the Automatic Creation of Massive Continuous Query Datasets from Real-Life Corpora". In: *Proceedings of the 7th International Conference on Advanced Computer Science and Information Technology (ICAIT)*. Vienna, Austria, Apr. 2018.

[14] Christos Tryfonopoulos. "The Effect of Introducing Content Price in Distributed Social Networks". In: *Proceedings of the 23rd Conference on Information Technologies (IT)*. Kaunas, Lithuania, Mar. 2018.

[13] Christos Tryfonopoulos, Charis Kotsiopoulos, and Paraskevi Raftopoulou. "Data Science Tutor: An online platform for automated exercise solving in Data Science." In: *Proceedings of the 9th Conference on Computer Science Teaching (DIDINFO)*. Thessaloniki, Greece, Oct. 2018.

[12] Thanasis Vergoulis, Ilias Kanellos, Serafim Chatzopoulos, Christos Tryfonopoulos, Theodore Dalamagas, and Yannis Vassiliou. "Pub Finder: Assisting the discovery of qualitative research." In: *Proceedings of the 16th Hellenic Data Management Symposium (HDMS)*. Larnaca, Cyprus, July 2018.

[11] Lefteris Zervakis, Christos Tryfonopoulos, Spiros Skiadopoulos, and Manolis Koubarakis. "Full-Text Support for Publish/Subscribe Ontology Systems". In: *Proceedings of the 15th Hellenic Data Management Symposium (HDMS)*. Athens, Greece, Aug. 2017.

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[9] K. Masselos, C. Vassilakis, G. Lepouras, C. Tryfonopoulos, N. Tselikas, and N. Platis. "A Platform for the Presentation and Dissemination of Cultural Heritage Information for Mobile Devices Enriched with Augmented Reality". In: *Proceedings of the Greek Conference for the Digitization of Cultural Information (EUROMED)*. Volos, Greece, Sept. 2015.

[8] Greek WG for Infective Endocarditis, Spiros Skiadopoulos, and Christos Tryfonopoulos. "Greek Multi-Centre Epidemiological Study on Infective Endocarditis: Initial Results". In: *Hellenic Society for Infectious Diseases (Infections)*. Athens, Greece, Feb. 2013.

[7] Avishek Anand, Srikanta Bedathur, Klaus Berberich, Ralf Schenkel, and Christos Tryfonopoulos. "EverLast: A Distributed Architecture for Preserving the Web". In: *Proceedings of the 8th Hellenic Data Management Symposium (HDMS)*. Athens, Greece, Aug. 2009.

[6] Christos Tryfonopoulos. "P2P Information Retrieval and Filtering". In: *HAIS*. Athens, Greece, May 2008.

[5] Christos Tryfonopoulos, Christian Zimmer, Manolis Koubarakis, and Gerhard Weikum. "Architectural Alternatives for Information Filtering in Structured Overlay Networks". In: *Proceedings of the 6th Hellenic Data Management Symposium (HDMS)*. Athens, Greece, July 2007.

[4] Christos Tryfonopoulos. "P2P Techniques for Web IR and IF". In: *BCS-IRSG*. UK, Sept. 2005.

[3] Christos Tryfonopoulos, Stratos Idreos, and Manolis Koubarakis. "Publish/Subscribe Functionality in IR Environments using Structured Overlay Networks". In: *Proceedings of the 4th Hellenic Data Management Symposium (HDMS)*. Athens, Greece, Aug. 2005.

[2] Christos Tryfonopoulos, Manolis Koubarakis, and Yannis Drougas. "Filtering Algorithms for Information Retrieval Models with Named Attributes and Proximity Operators". In: *Proceedings of the 3rd Hellenic Data Management Symposium (HDMS)*. Athens, Greece, Mar. 2004.

[1]   Manolis Koubarakis, Theodoros Koutris, Paraskevi Raftopoulou, and Christos Tryfono-
      poulos. "Efficient Agent-Based Dissemination of Textual Information". In: *Proceedings of
      the 2nd Hellenic Conference on Artificial Intelligence (SETN)*. Thessaloniki, Greece, Apr.
      2002.

7.5   Theses and technical reports

[4]   Nikos Kolokotronis. *Collection, analysis and sharing of cyber-threat intelligence: the inTIME
      system*. Tech. rep. https://privacy.ellak.gr/2021/07/13/sillogi-analisi-ke-diamirasmos-pliroforion-
      gia-kivernoapiles-to-sistima-intime/: Greek Free/Open Source Software Society (GFOSS),
      2021.

[3]   Christos Tryfonopoulos. "Peer-to-Peer Techniques for Web Information Retrieval and
      Filtering". PhD thesis. Greece: Department of Electronic and Computer Engineering,
      Technical University of Crete, July 2006.

[2]   Christos Tryfonopoulos and Manolis Koubarakis. *Selective Dissemination of Informa-
      tion in P2P Systems: Data Models, Query Languages, Algorithms and Computatio-
      nal Complexity*. Tech. rep. TR-ISL-02-2003. Department of Electronic and Computer
      Engineering, Technical University of Crete, 2002.

[1]   Christos Tryfonopoulos and Paraskevi Raftopoulou. "Design and Implementation of a
      Project Management System using Relational Databases". Bachelor's Thesis. Greece: De-
      partment of Computer Science, University of Crete, June 2000.

8   SCIENTIFIC CONTRIBUTION

8.1   Citations

The papers presented in Section 7 are cited by more than 800 works (self-citations are not
included) presented at international journals and magazines, conferences, workshops, technical
reports and theses including venues like VLDB Journal, IEEE TKDE, IEEE TOIT, IEEE
TPDS, Communications of the ACM, ACM Computing Surveys, Elsevier Information Processing
Management, VLDB, ICDE, SIGIR, WWW, ISWC, ICDCS, CIKM, WISE, IPDPS, Middleware,
P2P, AAMAS, WSDM, DEBS, etc. The full citation list is available upon request.

8.2   Scholarships & awards

May 2016	Short-listed for best research paper in Extended Semantic Con-ference (ESWC) 2016.
May 2012	Honorable mention for best poster (3rd place) in Extended Semantic Web Conference (ESWC) 2012.
June 2008	Award as "Distinguished Scientist Excelling in Research Abroad" from the Hellenic Ministry of National Defense.
September 2005	Best student paper award at the European Conference on Research and Advanced Technology for Digital Libraries (ECDL) 2005. The DELOS Research Exchange Award received is funded by DELOS NoE in Digital Libraries, and covers the expenses (up to €4000) for visiting one of DELOS partners.

November 2002	Postgraduate Research Scholarship for pursuing a Ph.D.given by the Greek Ministry of Education.
September 1998	Departmental scholarship during my undergraduate studies at the Computer Science Department, University of Crete.

8.3 Scientific service

External evaluator for R&D project proposals
External evaluator for various EU project calls (FP7 ICT, FET-Open, H2020).
External evaluator for various National Strategic Reference Framework (NSRF) calls.

Invited editor and PC chair
IEEE Transactions on Systems, Man, and Cybernetics (invited editor for the special issue on "Self-organization in Distributed Systems Engineering".
Future Internet, MDPI (invited editor for the special issue on "'Data Science for Cyber Security').
IEEE Workshop on Data Science for Cyber Security (DS4CS), organised in the context of the 2021 IEEE International Conference on Cyber Security and Resilience.

Reviewer (journals)
ACM Transactions on Data and Knowledge Engineering (TKDE). IEEE Transactions on Computers (ToC). ACM Computing Surveys. IEEE Internet Computing. IEEE Transactions on Parallel and Distributed Systems (TPDS). ACM Transactions on the Web (TWeb). Journal of Parallel and Distributed Computing (JPDC), Elsevier. Journal of Data and Knowledge Engineering (DKE), Elsevier. Information Processing and Management Journal (IPM), Elsevier. Information Systems, Elsevier. Journal of Internet Services and Applications, Springer. Journal of Computer Science and Technology, Springer. Computational Intelligence Journal, Wiley. Journal of Web Semantics, Elsevier. Ad Hoc Networks, Elsevier. International Journal of Web Information Systems, Emerald. The Computer Journal, Oxford Journals. Journal of Concurrency and Computation: Practice and Experience, Wiley. International Journal on Artificial Intelligence Tools, World Scientific. Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications.

Program committee (conferences)
Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR). International Conference on Information and Knowledge Management (CIKM). European Conference on Information Retrieval (ECIR). International Semantic Web Conference (ISWC). Extended Semantic Web Conference (ESWC). International Symposium on Information Theory (ISIT). Symposium on Advances in Databases and Information Systems (ADBIS). IEEE International Conference on Tools with Artificial Intelligence (ICTAI). Scalable Information Systems (Infoscale). International Conference on Database and Expert Systems Applications (DEXA). Asian Semantic Web Conference (ASWC). International Conference on Data Science, Technology and Applications (DATA). International Conference on Analysis of Images, Social Networks, and Texts (AIST). Digital Transformation and Global Society (DTGS). International Conference on Innovations in Information Technology (IIT). International Conference on Advances in P2P Systems (AP2PS). Hellenic Data Management Symposium (HDMS). Panhellenic Conference on Informatics (PCI).

Program committee (workshops)

Workshop on Large-Scale Distributed Systems for Information Retrieval (LSDS-IR @ SIGIR). Workshop on Data Management Issues in Web Syndication (DaMIWS @ CIKM). Workshop on Efficiency Issues in Information Retrieval (EEIR @ ECIR). Workshop on Data management in peer-to-peer systems (DaMaP @ EDBT). Workshop on Information Retrieval in Peer-to-Peer Networks (P2PIR @ CIKM). Workshop on Personalized Access, Profile Management, and Context Awareness in Digital Libraries (PersDL @ UM)

9 TEACHING

The following teaching activities have taken place in under/post graduate courses within University of the Peloponnese, and also in joint MSc programmes with the National Observatory of Athens, the National Centre for Scientific Research "Demokritos" and University of Athens.

Postgraduate courses taught: Big Data Management, Data Management, Distributed Data & Information Management, Web Information Management, Technological Evolution & Ethics, Programming & Internet Technologies, Internet Technologies, Arftificial Intelligence.

Undergraduate courses taught: Information Retrieval & Mining, Programming II, Data Management Systems, Web Services, Principles of Programming, Teaching in Informatics.

10 OTHER ACADEMIC ACTIVITIES

10.1 Student supervision

PhD students

- Serafeim Chatzopoulos (ongoing, 2016 – today). Thesis title: "Data Management Techniques for Scholarly Graphs and Publications". Thesis is conducted at the University of the Peloponnese and the Athena Research Centre.

- Charis Kotsiopoulos (ongoing, 2015 – today). Thesis topic: "Common-sense knowledge extraction". The thesis is conducted at the University of the Peloponnese.

- Kimon Deligiannis (ongoing, 2016 – today). Thesis topic: "Health information systems". The thesis is conducted at the University of the Peloponnese.

- George Vakalis (ongoing, 2019 – today). Thesis topic: "A study of social behaviours in online teaching environments". The thesis is conducted at the University of the Peloponnese.

- Lefteris Zervakis, completed in 2019. Thesis title: "Efficient continuous multi-query processing over data streams". Thesis was conducted at the University of the Peloponnese.

- Christian Zimmer, completed in 2008. Thesis title: "Approximate Information Filtering in P2P Networks". Thesis was conducted at Max-Planck Institute for Informatics and University of Saarland and was co-supervised with Prof. Gerhard Weikum.

MSc & BSc students Supervised 19 MSc students and 31 BSc students; currently supervising 17 MSc students and 5 BSc students in the area of data and information management.

10.2 Examination committee memberships

Participated in 14 PhD steering and/or examination committees, in 39 MSc examination committees, and in 29 BSc examination committees.

10.3 Presentations and invited talks

Presented papers, demos and posters in more than 50 international conferences and workshops, including leading venues in the areas of information retrieval, databases and digital libraries. Also presented work conducted in the context of European projects both at project reviews and technical meetings.

Below selected invited talks that were not given in the context of conferences or workshops are listed

September 2018	*Democratising social interactions online.* Tomas Bata University, Zlin, Chech Republic".
June 2015	*Smart Cities - Technological challenges and applications.* Municipality of Tripolis, organised for the candidancy of Tripolis for European Capital of Culture 2021.
February 2015	*Challenges in Distributed Social Networking.* Max-Planck Institute for Informatics, Saarbruecken, Germany.
July 2013	*Information Management in Distributed Social Networks.* InfoCloud Research Group, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia.
April 2013	*"Elvis has left the building": Retrieval and Filtering of Events in Social Networking.* Computer Science Department, University of Cyprus.
May 2011	*Data management in peer-to-peer environments.* School of Electrical & Electronic Engineering, National Technical University of Athens, Greece.
April 2008	*Alerting in Mobile Environments.* Bertinoro international Center for informatics (BiCi), Bertinoro, Italy.
May 2007	*Architectural Alternatives for Information Filtering in Structured Overlay Networks.* Dept. of Computer Science, University of Ioannina, Greece.
February 2006	*Information retrieval and filtering in IR environments.* L3S research center, Hannover, Germany.
December 2005	*Information Filtering with IR-Based Languages.* CWI research center, Amsterdam, The Netherlands.
November 2005	*Distributed Information Retrieval and Filtering.* Max-Planck Institute for Informatics, Saarbruecken, Germany.
December 2002	*The Intelligent Systems Lab.* European Research Area, Brussels, Belgium.
April 2002	*Agents in Biomedical Applications.* Medical School, University of Crete, Heraklion, Greece.