

Serafeim Chatzopoulos

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WORK EXPERIENCE

OpenAIRE AMKE

04/2022 – present

- FAIRCORE4EOSC · *Developing EOSC-Core components to enable a FAIR EOSC ecosystem* · HORIZON-INFRA-2021-EOSC-01
 - Development of the EOSC Research Discovery Graph (RDGraph).
 - Discovery of research products and services by exploiting impact-based indicators.
- EOSC Future · *European Open Science Cloud* · H2020-INFRAEOSC-2018-2020
 - Data aggregation, transformation and indexing services for the OpenAIRE Graph.
 - OpenAIRE Graph documentation curator.

ATHENA Research Center

06/2014 – 07/2020, 06/2021 – present

- GraspOS · *Next Generation Research Assessment to Promote Open Science* · HORIZON-INFRA-2022-EOSC-01
 - Automating creation and management of narrative CVs based on established assessment protocols.
- OpenAIRE-Nexus · *Scholarly Communication Services for EOSC users* · H2020-INFRAEOSC-2018-2020
 - Optimising search services for the OpenAIRE-Explore portal.
- SmartDataLake · *Sustainable Data Lakes for Extreme-Scale Analytics* · H2020 ICT-12-2018-2020
 - Efficient evaluation of metapath queries over heterogeneous information networks.
 - Expert finding in academia exploiting scholarly information networks.
- OpenAIRE-Advance · *Advancing Open Scholarship* · H2020, H2020-EINFRA-2017
 - Integration of a variety of impact measures for scientific publications.
- SlideWiki · *A collaborative OpenCourseWare authoring platform: multiplatform delivery and learning analytics* · H2020, H2020-ICT-20-2015
 - Design and implementation of keyword searching multi-versioned scholarly data.
- LODGOV · *Data Governance in the era of the Web of Data* · GSRI 2007-2013
 - Design and implementation of scalable privacy-preserving data publishing methods.
 - Implementation of keyword search algorithms for RDF graphs.

BSRC Alexander Fleming

04/2019 – 07/2019, 05/2021 – 06/2021

- ELIXIR-GR · *Managing and Analyzing Biological Data* · EPAnEK/NSRF 2014-2020
 - Educational material for Machine Learning in Bioinformatics.
- ELIXIR-EXCELERATE · *Fast-track ELIXIR implementation and drive user exploitation across life-sciences* · H2020-INFRADEV-1-2015-1
 - Implementation of a data management plan application for the Greek Bioinformatics Community.

EDUCATION

- Ph.D. in Computer Science** · Informatics and Telecommunications, University of the Peloponnese 2016 – 2022
Thesis: Data Mining for Scholarly Information Networks.
Advisory Committee: Christos Tryfonopoulos, Theodore Dalamagas, Spiros Skiadopoulos
- M.Sc. Computer Systems Technology** · Informatics and Telecommunications, University of Athens 2012 – 2015
Thesis: Survey of Privacy-Preserving Data Publishing Methods and Speedy: a Multi-threaded Algorithm preserving k-anonymity. Advisor: Mema Roussopoulos
- B.Sc. Informatics and Telecommunications** · University of Athens 2007 – 2012
Thesis: On-line Testing of Data Translation Lookaside Buffer (D-TLB) of the Processor OpenSparc T1.
Advisor: Antonios Paschalis

RESEARCH INTERESTS

- Scholarly Information Networks
- Data Mining for Scientific Publications
- Scientometrics
- Big Data Management

LANGUAGES

- **English** · Certificate of Proficiency in English
University of Cambridge
- **French** · DELF B2
République Française

ACADEMIC SERVICE

- Serves as a Review Editor for the Frontiers Research Metrics and Analytics Journal (June 2023 - present)
- Served as an invited reviewer for the following Conferences and Journals:
 - IEEE International Conference on Data Science and Advanced Analytics (DSAA) 2023
 - Expert Systems with Applications (ESWA) 2023
 - IEEE Transactions on Neural Networks and Learning Systems (TNNLS) 2022
 - European Conference on Advances in Databases and Information Systems (ADBIS) 2021
 - ACM International Conference on Information and Knowledge Management (CIKM) 2020, 2021, 2022, 2023
 - IEEE International Conference on Tools with Artificial Intelligence (ICTAI) 2019, 2021, 2022
 - International Conference on Theory and Practice of Digital Libraries (TPDL) 2018, 2019, 2023
 - IEEE International Conference on Big Data Computing Service and Machine Learning Applications (BigDataService) 2017

TEACHING ASSISTANTSHIP

Dept. of Informatics and Telecommunications · University of the Peloponnese

- Programming II (Spring 2017-18-19-20-21-22) · Teaching Assistant
Instructor: Christos Tryfonopoulos
- Information Retrieval (Fall 2017) · Teaching Assistant
Instructor: Christos Tryfonopoulos
- Big Data Management (Fall 2017-18-20-21) · Teaching Assistant
Instructor: Paraskevi Raftopoulou

Dept. of Informatics and Telecommunications · University of Athens

- Systems Programming (Spring 2013-14-15) · Teaching Assistant
Instructors: Mema Roussopoulos, Yannis Smaragdakis
- Operating Systems (Fall 2013) · Teaching Assistant
Instructor: Alex Delis
- Logic Design (Fall 2012) · Laboratory Assistant
Instructor: Antonios Paschalis

M.Sc. Data Science · NCSR Demokritos & University of the Peloponnese

- Co-supervision of master's thesis (Fall 2023)
“Recommending Scientific Papers: A Survey and A Hybrid Approach” by Grigoris Bouziotopoulos
Supervisor: Thanasis Vergoulis

PROGRAMMING SKILLS

Programming Languages: C/C++, Java, JavaScript, PHP, Python, Assembly (MIPS and SPARC)

Database Systems: MySQL, PostgreSQL, MongoDB, Neo4j, SPARQL

Frameworks: React.js & Redux, Yii2 (PHP Web Application), OpenMP-MPI (Parallel Programming), Apache Spark (Big Data Processing), Java SpringBoot

Misc.: Git, SVN, Apache Solr, Elasticsearch, Bash/Bourne, Awk, Sed

- [c20] P. Koloveas, **S. Chatzopoulos**, C. Tryfonopoulos, T. Vergoulis: BIP! NDR (NoDoiRefs): A Dataset of Citations From Papers Without DOIs in Computer Science Conferences and Workshops. *International Conference on Theory and Practice of Digital Libraries (TPDL)*, Zadar, Croatia, 2023
- [c19] **S. Chatzopoulos**, K. Vichos, I. Kanellos, T. Vergoulis: Piloting topic-aware research impact assessment features in BIP! Services. *Extended Semantic Web Conference (ESWC)*, Hersonissos, Greece, 2023
- [c18] **S. Chatzopoulos**, T. Vergoulis, D. Skoutas, T. Dalamagas, C. Tryfonopoulos, P. Karras: Atrapos: Real-time Evaluation of Metapath Query Workloads. *The Web Conference (WWW)*, Austin, USA, 2023
- [c17] A. Tzerefos, I. Kanellos, **S. Chatzopoulos**, T. Dalamagas, T. Vergoulis: SurvAnnT: Facilitating Community-led Scientific Surveys and Annotations. *International Conference on Theory and Practice of Digital Libraries (TPDL)*, Padua, Italy, 2022
- [c16] T. Vergoulis, **S. Chatzopoulos**, K. Vichos, I. Kanellos, A. Mannocci, N. Manola, P. Manghi: BIP! Scholar: A Service to Facilitate Fair Researcher Assessment. *Joint Conference on Digital Libraries (JCDL)*, Cologne, Germany, 2022
- [c15] K. Vichos, M. De Bonis, I. Kanells, **S. Chatzopoulos**, C. Atzori, N. Manola, P. Manghi, T. Vergoulis: A preliminary assessment of the article deduplication algorithm used for the OpenAIRE Research Graph. *18th Italian Research Conference on Digital Libraries (IRJDL)*, 2022
- [j5] **S. Chatzopoulos**, T. Vergoulis, T. Dalamagas, C. Tryfonopoulos: VeTo+: Improved Expert Set Expansion in Academia. *International Journal on Digital Libraries (IJDL)*, 2021
- [j4] T. Vergoulis, I. Kanellos, **S. Chatzopoulos**, D. P. Karidi, T. Dalamagas: BIP4COVID19: Releasing impact measures for articles relevant to COVID-19. *Quantitative Science Studies (Scientific Knowledge Graphs and Research Impact Assessment Issue)*, 2021
- [j3] **S. Chatzopoulos**, T. Vergoulis, I. Kanellos, T. Dalamagas, C. Tryfonopoulos: Further Improvements on Estimating the Popularity of Recently Published Papers. *Quantitative Science Studies (Scientific Knowledge Graphs and Research Impact Assessment Issue)*, 2021
- [c14] **S. Chatzopoulos**, T. Vergoulis, T. Dalamagas, C. Tryfonopoulos: VeTo-web: A Recommendation Tool for the Expansion of Sets of Scholars. *Joint Conference on Digital Libraries (JCDL)*, September 2021
- [c13] T. Vergoulis, I. Kanellos, C. Atzori, A. Mannocci, **S. Chatzopoulos**, S. La Bruzzo, N. Manola, P. Manghi: BIP! DB: A Dataset of Impact Measures for Scientific Publications. *1st International Workshop on Scientific Knowledge: Representation, Discovery and Assessment (Sci-K) @ The Web Conf*, Ljubljana, Slovenia, April 2021
- [c12] P. Deligiannis, T. Vergoulis, **S. Chatzopoulos**, C. Tryfonopoulos: Visualising Scientific Topic Evolution. *1st International Workshop on Scientific Knowledge: Representation, Discovery and Assessment (Sci-K) @ The Web Conf*, Ljubljana, Slovenia, April 2021
- [c11] **S. Chatzopoulos**, T. Vergoulis, P. Deligiannis, D. Skoutas, T. Dalamagas, C. 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, March 2021
- [c10] **S. Chatzopoulos**, K. Patroumpas, A. Zeakis, T. Vergoulis, D. Skoutas: SPHINX: A System for Metapath-based Entity Exploration in Heterogeneous Information Networks. *In Proceedings of the 46th International Conference on Very Large Data Bases (VLDB)*, Tokyo, Japan, August 2020
- [c9] **S. Chatzopoulos**, T. Vergoulis, I. Kanellos, T. Dalamagas, C. Tryfonopoulos: ArtSim: Improved estimation of current impact for recent articles. *In Proceedings of the 1st International Workshop on Assessing Impact and Merit in Science @ TPDL*, Lyon, France, August 2020
- [c8] T. Vergoulis, **S. Chatzopoulos**, T. Dalamagas, C. Tryfonopoulos: VeTo: Expert Set Expansion in Academia. *In Proceedings of the 24th International Conference on Theory and Practice of Digital Libraries (TPDL)*, Lyon, France, August 2020
- [c7] T. Vergoulis, **S. Chatzopoulos**, I. Kanellos, P. Deligiannis, C. Tryfonopoulos, T. 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, November 2019

- [c6] T. Vergoulis, I. Kanellos, A. Tzerefos, **S. Chatzopoulos**, T. Dalamagas, S. Skiadopoulos: A study on the readability of scientific publications. *In Proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries (TPDL)*, Oslo, Norway, September 2019
- [c5] **S. Chatzopoulos**, P. Deligiannis, T. Vergoulis, I. Kanellos, C. Tryfonopoulos, T. Dalamagas: SciTo trends: visualising scientific topic trends. *In Proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries (TPDL)*, Oslo, Norway, September 2019
- [c4] T. Vergoulis, I. Kanellos, A. Tzerefos, **S. Chatzopoulos**, T. Dalamagas, S. Skiadopoulos: Studying the readability of scientific papers. *In Proceedings of the 17th Hellenic Data Management Symposium (HDMS)*, Athens, Greece, July 2019
- [j2] D. Karagkouni, M. Paraskevopoulou, **S. Chatzopoulos**, I. S. Vlachos, S. Tastsoglou, I. Kanellos, D. Papadimitriou, I. Kavakiotis, S. Maniou, G. Skoufos, T. Vergoulis, T. Dalamagas, A. Hatzigeorgiou: DIANA-TarBase v8: a decade-long collection of experimentally supported miRNA-gene interactions. *Nucleic Acids Research (Database Issue)*, 46: D239-D245, 2018
- [c3] T. Vergoulis, I. Kanellos, **S. Chatzopoulos**, C. Tryfonopoulos, T. Dalamagas, Y. Vassiliou: Pub Finder: Assisting the discovery of qualitative research. *In Proceedings of the 16th Hellenic Data Management Symposium (HDMS)*, Larnaca, Cyprus, July 2018
- [j1] I. S. Vlachos, T. Vergoulis, M. Paraskevopoulou, F. Lykokanellos, G. Georgakilas, P. Georgiou, **S. Chatzopoulos**, D. Karagkouni, F. Christodoulou, T. Dalamagas, A. Hatzigeorgiou: DIANA-mirExTra v2.0: Uncovering microRNAs and Transcription Factors with crucial roles in NGS expression data. *Nucleic Acid Research (Web Server Issue)*, 2016
- [c2] G. Theodorou, **S. Chatzopoulos**, N. Kranitis, A. Paschalis, D. Gizopoulos: A Software-Based Self-Test Methodology for On-Line Testing of Data TLBs. *In Proceedings of the IEEE 17th European Test Symposium (ETS)*, pp. 189, Annecy, France, 2012
- [c1] G. Theodorou, **S. Chatzopoulos**, N. Kranitis, A. Paschalis, D. Gizopoulos: On-Line Software-Based Self-Test for Data TLBs. *In Proceedings of the 1st Workshop on Manufacturable and Dependable Multicore Architectures at Nanoscale (MEDIAN)*, pp.65-70, Annecy, France, 2012