



Yannis Marketakis

Curriculum vitae

(April 2026)

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| <u>Name</u> | Yannis |
| <u>Surname</u> | Marketakis |
| <u>Birth Date/ Place</u> | 15/01/1984, Heraklion, Crete |
| <u>e-mail</u> | marketak@ics.forth.gr , (personal : yannismarketakis@gmail.com) |
| <u>Webpage</u> | http://users.ics.forth.gr/~marketak/ |
| <u>Phone</u> | (+30) 2810 391629 |
| <u>Languages</u> | Greek (Mother tongue) English (First Certificate in English) German (Zertifikat Elementarstufe Deutsch) |

Education

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| | <i>M.Sc. in Computer Science</i> |
| Feb 2008 – | Major: Information Systems |
| Apr 2010 | Thesis: “Conceptual Modeling and Tools for Digital Preservation” Supervisor: Yannis Tzitzikas Average Grade: 8.30 / 10 Computer Science Department, University of Crete. |
| | <i>B.Sc. in Computer Science</i> |
| Sep 2004 – | Thesis: “Design and Implementation of a Dependency Management |
| Feb 2008 | System”. Supervisor: Yannis Tzitzikas Average Grade: 7.58 / 10 Computer Science Department, University of Crete. |

Working Experience

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| Sep 2011 – | <i>R&D Engineer</i> in the Information Systems Laboratory of the Institute of |
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| Feb 2008 – | <i>Research assistant (Graduate Scholar)</i> in the Information Systems Laboratory |
| Apr 2010 | |
| Sep 2007 – | <i>Research assistant (Undergraduate Scholar)</i> in the Information Systems |
| Feb 2008 | |

Participation in Projects

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| Oct 2024 – Today | SemantyFish (Horizon Europe OSCARS 1st open call for open science projects) “Advancing the visibility, interoperability and exploitability of FishBase ” <u>Role</u> : Leading project activities. |
| May 2024 – Today | VeriFish (Horizon Europe- 101156426) “The sustainability indicator framework to communicate responsible aquafood production and consumption patterns” <u>Role</u> : Implementation of the technical facilities and knowledge base for the sustainability indicator framework. |
| Dec 2019 - Today | GRSF (LoA FORTH-FAO) “Services and Tools for the Maintenance of the Global Record of Stocks and Fisheries”. <u>Role</u> : Design and Implementation of tools and services for the maintenance of the Global Record of Stocks and Fisheries. |
| Nov 2023 – Jun 2024 | Archipel “Integration of archaeological excavation reports from multiple data sources” <u>Role</u> : Implementation of Extract-Transform-Load services for Archipel |
| Nov 2023 – Aug 2024 | Analysis of Focus and Sentiment of Restoration Interventions in the Aquatic Domain <u>Role</u> : Implementation of workflow for the analysis of publications corpus using thesauri and Large Language Models (OpenAI API) |
| Jan 2023 - Today | BlueCloud 2026 (Horizon Europe- 101094227) “A federated European FAIR and Open Research Ecosystem for oceans, seas, coastal and inland waters”. <u>Role</u> : Implementation of technical facilities for expanding and inter-linking GRSF in the context of the vLab Global Fisheries Atlas |
| Nov 2022 - Nov 2023 | EFSA Ontologies “Ontology roadmapping and case study implementation”. <u>Role</u> : Coordination of activities towards an inventory of ontologies for food safety domain, EFSA case study and implementation |
| Nov 2022 - Dec 2023 | EKT-Workfun+ “Implementation of a new environment for Workfun”. <u>Role</u> : Technical coordination of activities for the implementation of the new Workfun environment of openABEKT. |
| Oct 2019 - Mar 2023 | BlueCloud (H2020 - 862409) “Piloting innovative services for Marine Research & the Blue Economy”. <u>Role</u> : Implementation of technical facilities for expanding and inter-linking GRSF in the context of pilot demonstrator: Fish - a matter of scales |
| Sep 2019 – May 2022 | MINGEI (H2020 - 822336) “Representation and Preservation of Heritage Crafts”. <u>Role</u> : Support with semantic data integration and definition of schema mappings between ontologies |

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| Mar 2020 – Jan 2022 | SeaLit “Seafaring Lives in Transition”. <u>Role:</u> Support the semantic data integration and ETL processes |
| Sep 2019 – Jun 2020 | RTI-CHI “Reflectance Transformation Imaging (RTI) - Cultural Heritage Imaging (CHI)”. <u>Role:</u> Support data transformation activities and implementation of a SIP archiver software |
| Jan 2018 - Mar 2019 | Toshiba Research Europe , “A Linked Data-assisted Statistical Spoken Dialogue System”. <u>Role:</u> Support in the development activities |
| Nov 2017 – Mar 2018 | Shared Data Platform , “Design and implementation of a centralized platform that will increase the effectiveness and efficiencies of sharing sustainable seafood information”. Funded by Sustainable Fisheries Partnership (US), SeafoodWatch (US) and FishChoice (US) <u>Role:</u> Design and implementation of services for the shared data platform. |
| Sep 2015 – Feb 2018 | BlueBRIDGE (H2020 - 675680) , “Building Research environments for fostering Innovation, Decision making, Governance and Education to support Blue growth” <u>Role:</u> development of data discovery facilities, data integration using semantic web technologies, coordination of technical activities. |
| Oct 2015 – Sep 2018 | VRE4EIC (H2020 - 676247) , “A Europe-wide Interoperable Virtual Research Environment to Empower Multidisciplinary Research Communities and Accelerate Innovation and Collaboration” <u>Role:</u> design and development of infrastructure for supporting virtual research environments (VREs), coordination of technical activities. |
| Feb 2016 – Mar 2016 | TransSOL (H2020 - 649435) , “Transnational Solidarity at times of crisis”. <u>Role:</u> mined data from websites derived from the 8 European countries of TransSOL. |
| Jun 2015 – Jul 2015, Aug 2016 – Sep 2016 | LiveWHAT (FP7 - 613237) , “Living with Hard Times – How citizens react to economic crises and their social and political consequences”. <u>Role:</u> mined data from websites from 9 European countries – Data transformation and ingestion at LiveWHAT wiki site. |
| Jan 2015 – Dec 2015 | Helbionet - LifeWatch Greece (NSRF) , “Hellenic Network for Biodiversity Research: Construction and Implementation phase for the LifeWatch Centre” <u>Role:</u> support the design and implementation of the LifeWatch Greece infrastructure, development of data web services and APIs. |
| Sep 2011 – Dec 2014 | SCIDIP-ES (FP7 - 283401) , “Science Data Infrastructure for Preservation – Earth Science” <u>Role:</u> design and implementation of services for supporting the digital preservation of earth science data, support the harmonization of earth science models, ontologies and vocabularies, coordination of technical activities. |
| Nov 2011 – Sep 2014 | iMarine (FP 7- 283644) , “Data e-Infrastructure Initiative for Fisheries Management and Conservation of Marine Living Resources” <u>Role:</u> support the development of semantic enrichment of search results, design of semantic models for supporting marine data integration, design and |

implementation of framework for automating the construction of semantic warehouses, coordination of technical activities.

Sep 2007 –
Sep 2009

CASPAR (FP6 - 033572), “Cultural, Artistic and Scientific Knowledge for Preservation, Access and Retrieval”

Role: design and implementation of a dependency management system for the preservation of digital objects.

Software Developed

SemantyFish API | The API provides programmatic access to the SemantyFish Knowledge Base (<https://demos.isl.ics.forth.gr/semantyfish-api/>)

VeriFish API | The API provides discovery and access services to the knowledge base of the VeriFish Sustainability Indicator Framework (<https://demos.isl.ics.forth.gr/verifish/verifish-api/>)

EasyLink | EasyLink is a web application and URL resolver for creating shorter, easier and more manageable URLs and QR codes (<https://link-it.gr/>)

FoodEx2 Search | An application supporting the retrieval of the (SKOSified) EFSA FoodEx2 terms (<https://demos.isl.ics.forth.gr/foodex2search/>)

Onto4Food Browser | A web application enabling browsing over the contents of EFSA Onto4Food knoweldge base (<https://demos.isl.ics.forth.gr/onto4foodbrowser/>)

GRSF IR | A web application facilitating access and retrieval over the contents of the Global Record of Stocks and Fisheries (GRSF), and its connected resources (e.g. species, assessment areas, fishing gears, etc.) (<https://isl.ics.forth.gr/grsf/grsf-ir/>)

GRSF API | A RESTful API enabling retrieval and access over the contents of the Global Record of Stocks and Fisheries (GRSF) knowledge base (<https://isl.ics.forth.gr/grsf/grsf-api/>)

GRSF Services | A set of services responsible for the construction and maintenance of Global Record of Stocks and Fisheries (GRSF). The software sources are available through the D4Science repository (<http://svn.research-infrastructures.eu/public/d4science/gcube/trunk/application/GRSF/>)

X3ML Engine | X3ML Engine is a tool that handles that generation of URIs and the transformation of data resources. (<https://github.com/isl/X3ML>)

MatWare | MatWare is a tool for constructing domain-specific warehouses by aggregating semantic data. The main objective is to tackle the need for having integrated sets of facts regarding a particular domain. (<http://www.ics.forth.gr/isl/MatWare/>)

LifeWatch Greece data services | LifeWatch Greece Data Services provide the users the appropriate tools to: (a) publish their datasets as Linked Data, (b) import the datasets to the LifeWatch Greece infrastructure, (c) perform information quality

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| | improvements and (d) provide the means to efficiently discover datasets. (https://github.com/isl/LifeWatch_Greece) |
| <i>Gap Identification Service</i> | Gap Identification Service has been based on GapManager. It has been developed in the context of SCIDIP-ES project. It allows (a) checking the intelligibility/ task performability, (b) identifying dependency-related risks and (c) computing intelligibility gaps. (http://int-platform.digitalpreserve.info/dashboard/gap-identification-service/) |
| <i>Gap Manager</i> | Gap Manager is one of the key components of CASPAR. It can aid several tasks related to the preservation of the intelligibility of digital objects. It can be considered as an advanced and extensible semantic registry of data formats. (https://www.ics.forth.gr/isl/SWKM/GapManager/) |
| <i>PreScan</i> | PreScan is a tool for that can aid the automating the scanning of file systems, the extraction of embedded metadata, the transformation of these metadata to ontological instances and also supports the maintenance of such metadata. (http://www.ics.forth.gr/isl/PreScan/) |
| <i>Timer</i> | Timer is a plugin that can be used for measuring the time when running various tasks in a java program. It is configurable to support aggregate functions over various timers and provides a lightweight solution for benchmarking applications. (https://github.com/yemark/Timer) |

Teaching Experience

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| <i>Spring 2024-2025</i> | Teaching Assistant , "CS463 – Information Retrieval Systems", Computer Science Department, University of Crete. |
| <i>Fall 2025-2026</i> | Teaching Assistant , "CS252 – Object-Oriented Programming", Computer Science Department, University of Crete. |
| <i>Spring 2024-2025</i> | Teaching Assistant , "CS463 – Information Retrieval Systems", Computer Science Department, University of Crete. |
| <i>Fall 2024-2025</i> | Teaching Assistant , "CS252 – Object-Oriented Programming", Computer Science Department, University of Crete. |
| <i>Spring 2023-2024</i> | Teaching Assistant , "CS463 – Information Retrieval Systems", Computer Science Department, University of Crete. |
| <i>Fall 2023-2024</i> | Teaching Assistant , "CS252 – Object-Oriented Programming", Computer Science Department, University of Crete. |
| <i>Fall 2009-2010</i> | Teaching Assistant , "CS562 – Advanced Database Topics", Computer Science Department, University of Crete. |
| <i>Spring 2009-2010</i> | Teaching Assistant , "CS351 – Information Systems Analysis and Design", Computer Science Department, University of Crete. |

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| <i>Fall</i> 2008-2009 | Teaching Assistant , “CS463 – Information Retrieval Systems”, Computer Science Department, University of Crete. |
| <i>Spring</i> 2008-2009 | Teaching Assistant , “CS351 – Information Systems Analysis and Design”, Computer Science Department, University of Crete. |
| <i>Spring</i> 2008-2009 | Lecture , “Internet Applications, HTML, CSS, VRML”, Vocational Training Institute, Heraklion, Crete. |

Technical Skills

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| <i>Programming Languages</i> | Java, Python, C, Prolog, Verilog, GW Basic, Fortran, Matlab |
| <i>Web Programming</i> | HTML, CSS, PHP, JavaScript, J2EE, JSP, XML, GWT, Docker, Swagger, Vaadin |
| <i>Java Tools / Frameworks</i> | Spring, Vaadin, junit, maven, ant, ivy, gradle |
| <i>Operating Systems</i> | Windows (XP, Vista, 7, 8, 8.1, 10, 11, 2003 Server), Linux (Debian, Ubuntu, OpenSuse, Fedora) – (usage and administration) |
| <i>Databases</i> | SQL (MySQL, PostgreSQL), NoSQL (MongoDB) SPARQL (Openlink Virtuoso, Owlim, Blazegraph) |
| <i>Semantic Web</i> | RDF, RDF/s , OWL, SPARQL |
| <i>Administration</i> | Redmine, Jenkins CI, Sonatype Nexus, DevOps, Sonarcube, ETICS, SVN server, CKAN |
| <i>Misc.</i> | UML, SVN, GIT, LATEX, shell scripting |

More Resources



<https://www.linkedin.com/in/yannis-marketakis-01974552>

https://www.researchgate.net/profile/Yannis_Marketakis

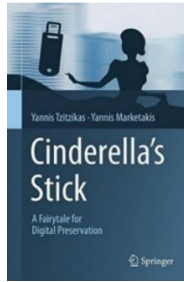
<https://github.com/ymark>

<https://bitbucket.org/ymark/>

ymark_em

<https://www.facebook.com/yannis.marketakis>

Publications



- [1]. **Y. Marketakis**, E. Tsouloucha, A. Kritsotaki, and Y. Tzitzikas, “*Reinforcing Open Science in Biodiversity through Semantic Knowledge Graphs*”. ERCIM News, 144, April 2026.
- [2]. **Y. Marketakis**, M.L. Castel, and Y. Tzitzikas, “*Using LLMs to Automate Schema Mappings for RDF Knowledge Graphs Construction*”. 41st ACM/SIGAPP Symposium On Applied Computing. March 2026, Thessaloniki, Greece.
- [3]. **Y. Marketakis** and Y. Tzitzikas, “*Beyond Prompt-to-RDF: A Vision for Scalable and Explainable Graph Transformations via LLM-assisted Schema Mappings*”. Proceedings of the Workshops of the EDBT/ICDT 2026 Joint Conference. March, 2026, Tampere, Finland.
- [4]. **Y. Marketakis**, Y. Tzitzikas, A. Petrocelli, S. Pittonet Gaiarin, S. Astley, C. Absil, M. Boonstra, T. Huntington, T. Murai, and N. Baily, “*Construction, Access and Application of a Knowledge Base for Sustainable Aquafood Communication*”. 14th International Joint Conference on Knowledge Graphs. Heraklion, Greece. October 2025.
- [5]. **Y. Marketakis**, “*Building Interoperable Knowledge Graphs with X3ML Framework*”. Tutorial presented in 14th International Joint Conference on Knowledge Graphs. DOI: 10.5281/zenodo.18889074. Heraklion, Greece. October 2025
- [6]. S. Pittonet Gaiarin, I. Salvo Borda, A. Petrocelli, C. Absil, M. Boonstra, T. Huntington, **Y. Marketakis**, S. Astley, K. Presser, and P. Olsen, “*VeriFish: The Sustainability Indicator Framework to Communicate Responsible Aquafood Production and Consumption Patterns*”. ePoster in Aquaculture Europe 2025, Valencia, Spain, September 2025.
- [7]. M. Taconet, R. Sharma, A. Gentile, K. Viparthy, A.E. Nieblas, A. Ellenbroek, B. Niekerk, E. Blondel, Y. Laurent, A. Muñoz, F. Fiorellato, J. Barde, **Y. Marketakis**, B. Spear, M. Melnychuk, P. Pagano, “*FAO partnerships and Virtual Research Environments to support global monitoring of state of fishery stocks*”. UNOC 2025 One Ocean Science Congress, Nice, France, June 2025.
- [8]. Y. Tzitzikas, **Y. Marketakis**, M. Mountantonakis, P. Fafalios, M. Theodoridou, A. Axaridou, A. Kritsotaki, C. Bekiari, “*Architectural Suggestions for Ontology Management*”, EFSA Supporting Publications, Volume 21, Issue 12, Dec 2024, <https://doi.org/10.2903/sp.efsa.2024.EN-9118>
- [9]. Y. Tzitzikas, **Y. Marketakis**, P. Fafalios, A. Kritsotaki, A. Axaridou, M. Mountantonakis, C. Bekiari, M. Theodoridou, “*Governance Model for Ontologies*”, EFSA Supporting Publications, Volume 21, Issue 12, Dec 2024, <https://doi.org/10.2903/sp.efsa.2024.EN-9119>
- [10]. Y. Tzitzikas, **Y. Marketakis**, P. Fafalios, A. Kritsotaki, A. Axaridou, M. Mountantonakis, M. Theodoridou, C. Bekiari, “*Ontologies and Case Studies*”, EFSA

Supporting Publications, Volume 21, Issue 12, December 2024,
<https://doi.org/10.2903/sp.efsa.2024.EN-9120>

- [11]. **Y. Marketakis**, A. Kritsotaki, A. Axaridou, P. Fafalios, M. Mountantonakis, Y. Tzitzikas, “*On Transforming FoodEx2 to a Standardized and Interoperable Thesaurus*”. Proceedings of the 11th International Conference on ICT in Agriculture, Food & Environment Conference (HAICTA 2024), October 17-20, 2024, Samos, Greece, 2024.
- [12]. **Y. Marketakis**, Y. Tzitzikas, A. Gentile, A. Ellenbroek, M. Taconet, “*Building a Global Aquatic Resources Knowledge Base for Fisheries*”. Proceedings of the 11th International Conference on ICT in Agriculture, Food & Environment Conference (HAICTA 2024), October 17-20, 2024, Samos, Greece, 2024.
- [13]. **Y. Marketakis**, Y. Tzitzikas. “*The ubiquitous need for integrating data for e-science and the data transformation framework of FORTH-ICS-ISL*”, Poster in 14th scientific retreat (FORTH), DOI: 10.5281/zenodo.18863466, Ancient Olympia, Greece. October 2024.
- [14]. X. Zabulis, N. Partarakis, I. Demeridou, P. Doulgeraki, E. Zidianakis, A. Argyros, C. Meghini, V. Bartalesi, N. Pratelli, C. Holz, Paul Strelis, M. Meier, M. K. Seidler, L. Werup, P. F. Sichani, S. Manitsaris, G. Senteris, A. Dubois, C. Ringas, D. Kaplanidi, D. Arnaud, P. Hee, G. Canavate, M. A. Benvenuti, J. Krivokapic, M. Theodoridou, **Y. Marketakis**, A. Ziova, E. Tasiopoulou. “*A Roadmap for Craft Understanding, Education, Training, and Preservation*”, Preprints.org 2023, 2023061214. <https://doi.org/10.20944/preprints202306.1214.v1>
- [15]. P. Fafalios, **Y. Marketakis**, A. Axaridou, Y. Tzitzikas, and M. Doerr. “*A Workflow Model for Holistic Data Management and Semantic Interoperability in Quantitative Archival Research*”. Journal DSH (Digital Scholarship in the Humanities), 2023.
- [16]. **Y. Marketakis**, Y. Tzitzikas, A. Gentile, B. Van Niekerk, and Marc Taconet. “*A Reconciliation Framework for the Integration of Stocks and Fisheries Information*”. Proceedings of the 10th International Conference on ICT in Agriculture, Food & Environment (HAICTA 2022), September 22-25, 2022, Athens, Greece
- [17]. Y. Tzitzikas, M. Mountantonakis, P. Fafalios, **Y. Marketakis**. “*CIDOC-CRM and Machine Learning: A Survey and Future Research*”. Heritage 2022, 5, 1612-1636. <https://doi.org/10.3390/heritage5030084>
- [18]. **Y. Marketakis**, Y. Tzitzikas, A. Gentile, Bracken Van Niekerk, Marc Taconet. “*A Workflow for Supporting the Evolution Requirements of RDF-based Semantic Warehouses*”. Int. J. Metadata Semant. Ontologies 15, 3 (2021), 220–232. <https://doi.org/10.1504/ijmso.2021.123044>
- [19]. N. Partarakis, P. Doulgeraki, E. Karuzaki, I. Adami, S. Ntoa, D. Metilli, V. Bartalesi, C. Meghini, **Y. Marketakis**, D. Kaplanidi, M. Theodoridou, and X. Zabulis. Representation of Socio-historical Context to Support the Authoring and Presentation of Multimodal Narratives: The Mingei Online Platform. Journal on Computing and Cultural Heritage. Vol. 15 (1), pp 1-26, <https://doi.org/10.1145/3465556>, (2021)
- [20]. Y. Tzitzikas, **Y. Marketakis**. “*Cinderella’s Stick – A Fairy Tale for Digital Preservation*”. Springer 2018, ISBN 978-3-319-98487-2. <https://www.cinderella-stick.com/>
- [21]. **Y. Marketakis**, Y. Tzitzikas, A. Gentile, Bracken Van Niekerk, Marc Taconet. “*On the Evolution of Semantic Warehouses: The Case of Global Record of Stocks and*

- Fisheries*". 14th International Conference on Metadata and Semantics Research (MTRS'20) Madrid, 2020. (**Best Paper Award**)
- [22]. Y. Tzitzikas, and **Y. Marketakis**. Reinforcing Fisheries Management through Semantic Data Integration. ERCIM News, 123, October 2020.
- [23]. Y. Tzitzikas, **Y. Marketakis**. "Decomposing the Digital Preservation Problem with Patterns", 25th Panhellenic Academic Libraries Conference (PALC25), Rethymno, Crete, Greece, Oct. 2019
- [24]. N. Braunschweiler, P. Papadakos, M. Kotti, **Y. Marketakis**, and Y. Tzitzikas. "Crowd-sourced Collection of Task-Oriented Human-Human Dialogues in a Multi-Domain Scenario", 22nd International Conference on TEXT, SPEECH and DIALOGUE (TSD 2019), Ljubljana, Slovenia, Sept. 2019
- [25]. Y. Tzitzikas, **Y. Marketakis**, N. Minadakis, M. Mountantonakis, L. Candela, F. Mangiacrapa, P. Pagano, C. Perciante, D. Castelli, M. Taconet, A. Gentile, G. Gorelli. "Methods and Tools for Supporting the Integration of Stocks and Fisheries", Book Chapter in "Information and Communication Technologies in Modern Agricultural Development", M. Salampasis and T. Bournaris (Eds.): HAICTA 2017, CCIS 953, pp. 1–15, Springer Nature Switzerland AG 2019. https://doi.org/10.1007/978-3-030-12998-9_2.
- [26]. E. Dimitrakis, K. Sgontzos, P. Papadakos, **Y. Marketakis**, A. Papangelis, Y. Stylianou, Y. Tzitzikas. "On Finding the Relevant User Reviews for Advancing Conversational Faceted Search", 4th Workshop on Sentic Computing, Sentiment Analysis, Opinion Mining, and Emotion Detection at ESWC2018, Heraklion, Greece, 2018.
- [27]. A. Papangelis, P. Papadakos, N. Braunschweiler, Y. Stylianou, **Y. Marketakis**, Y. Tzitzikas. "Information Navigation via Spoken Dialogue and Linked Data", Demo paper at ICASSP'18, IEEE International Conference on Acoustics, Speech and Signal Processing, 2018.
- [28]. **Y. Marketakis**, N. Minadakis, Y. Tzitzikas. "The Global Record of Stocks and Fisheries" (poster). 11th scientific retreat (FORTH), Heraklion, Crete, Greece. October 2017. <https://doi.org/10.5281/zenodo.1115949>
- [29]. M. Mountantonakis, N. Minadakis, **Y. Marketakis**, P. Fafalios, Y. Tzitzikas. "Connectivity, Value and Evolution of a Semantic Warehouse". Book chapter in "Innovations, Developments, and Applications of Semantic Web and Information Systems", IGI-Global.
- [30]. Y. Tzitzikas, **Y. Marketakis**, N. Minadakis, M. Mountantonakis, L. Candela, F. Mangiacrapa, P. Pagano, C. Perciante, D. Castelli, M. Taconet, A. Gentile, G. Gorelli. "Towards a Global Record of Stocks and Fisheries". 8th International Conference on Information and Communication Technologies in Agriculture, Food & Environment, September 21-24, 2017, Chania, Crete, Greece.
- [31]. **Y. Marketakis**, N. Minadakis, H. Kondylakis, K. Konsolaki, G. Samaritakis, M. Theodoridou, G. Flouris, M. Doerr. "X3ML Mapping Framework for Information Integration in Cultural Heritage and beyond". International Journal on Digital Libraries, pp 1-19, Springer, DOI 10.1007/s00799-016-0179-1. 2017
- [32]. K. Jeffery, C. Meghini, C. Concordia, T. Patkos, V. Brasse, J. v. Ossenbruck, **Y. Marketakis**, N. Minadakis, E. Marchetti. "A Reference Architecture for Virtual

- Research Environments*”, 15th International Symposium of Information Science, 13-15 March 2017, Humboldt-Universität zu Berlin. 2017.
- [33]. N. Minadakis, **Y. Marketakis**, M. Doerr, C. Bekiari, P. Papadakos, A. Gougousis, N. Bailly, C. Arvanitidis. “*LifeWatch Greece data-services: Discovering Biodiversity Data using Semantic Web Technologies*”, Biodiversity Data Journal 4: e8443 (01 Nov 2016) <https://doi.org/10.3897/BDJ.4.e8443>.
- [34]. M. Mountantonakis, N. Minadakis, **Y. Marketakis**, P. Fafalios, Y. Tzitzikas. “*Quantifying the Connectivity of a Semantic Warehouse and Understanding its Evolution over Time*”. International Journal on Semantic Web and Information Systems (IJSWIS) 12(3), pp.: 27-78, 2016. DOI: 10.4018/IJSWIS.2016070102. <http://dx.doi.org/10.4018/IJSWIS.2016070102>
- [35]. Y. Tzitzikas, C. Allocca, C. Bekiari, **Y. Marketakis**, P. Fafalios, M. Doerr, N. Minadakis, T. Patkos, L. Candela. “*Unifying Heterogeneous and Distributed Information about Marine Species through the Top Level Ontology MarineTLO*”. Emerald Group Publishing Limited, Vol. 50 Iss: 1, pp.16 - 40, 2016. DOI: <http://dx.doi.org/10.1108/PROG-10-2014-0072>.
- [36]. N. Minadakis, **Y. Marketakis**, C. Bekiari, M. Doerr, N. Bailly, A. Gougousis, S. Nikolopoulou, D. Mavraki, C. Arvanitidis. “*LifeWatch Greece Data-Services: On Supporting Metadata and Semantics Integration for the Biodiversity Domain*”. In 13th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions (ICZEGAR’2015), Heraklion, Crete, October 2015
- [37]. C. Allocca, M. Doerr, C. Bekiari, N. Bailly, N. Minadakis, **Y. Marketakis**, D. Mavraki, S. Nikolopoulou, C. Arvanitidis. “*Ontologies and Linked Open Data in the LifeWatch Greece Research Infrastructure*”. In 13th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions (ICZEGAR’2015), Heraklion, Crete, October 2015.
- [38]. N. Minadakis, **Y. Marketakis**, H. Kondylakis, G. Flouris, M. Theodoridou, M. Doerr, G. de Jong. “*X3ML Framework: An Effective Suite for Supporting Data Mappings*”. Workshop for Extending, Mapping and Focusing the CRM – co-located with TPD’2015, Poznan, Poland, September 2015.
- [39]. Y. Tzitzikas, Y.Kargakis, **Y. Marketakis**. “*Assisting Digital Interoperability and Preservation through advanced Dependency Reasoning*”. International Journal on Digital Libraries, October 2014.
- [40]. Y. Tzitzikas, N. Minadakis, **Y. Marketakis**, P. Fafalios, C. Allocca, M. Mountantonakis, I. Zidianaki. “*MatWare: Constructing and Exploiting Domain Specific Warehouses by Aggregating Semantic Data*”. In proceedings of the 11th Extended Semantic Web Conference (ESWC’14), Anissaras, Crete, Greece, May 2014.
- [41]. M. Mountantonakis, C. Allocca, P. Fafalios, N. Minadakis, **Y. Marketakis**, C. Lantzaki, Y. Tzitzikas. “*Extending VoID for Expressing Connectivity Metrics of a Semantic Warehouse*”. In 1st workshop on Dataset PROFILING and Federated Search for Linked Data (PROFILES 2014) - co-located with ESWC’14. Anissaras, Crete, Greece, May 2014.
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Memberships to National and International Committees

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| <i>IJCKG 2025</i> | Website Chair: 14 th International Joint Conference on Knowledge Graphs (IJCKG 2025) |
| <i>Beyond Facts 2025</i> | Program Committee Member: 5 th International Workshop on Computational Methods for Online Discourse Analysis (Beyond Facts 2026) |
| <i>IJCKG 2024</i> | Website Chair: 13 rd International Joint Conference on Knowledge Graphs (IJCKG 2024) |
| <i>SWODCH 2024</i> | Program Committee Member: Semantic Web and Ontology Design for Cultural Heritage (SWODCH 2024) |

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|--------------------------|---|
| <i>Beyond Facts 2024</i> | Program Committee Member: International Workshop on Computational Methods for Online Discourse Analysis (Beyond Facts 2024) |
| <i>SWODCH 2023</i> | Program Committee Member: Semantic Web and Ontology Design for Cultural Heritage (SWODCH 2023) |

Additional Info

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|---------------------------|---|
| <i>Research Interests</i> | information systems, digital preservation, knowledge representation using Semantic Web technologies, linked data, data integration using semantic web technologies, conceptual modeling |
| <i>Other Interests</i> | (Motor)biking, music, cinema, reading, hiking, travelling |
| <i>Military Services</i> | Completed on Feb 2011(Kalamata(GR), Aylona(GR), Malouna/Nicosia(CY)) |