

Stavros Christodoulakis

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,835
citations

430754

18
h-index

345118

36
g-index

89
all docs

89
docs citations

89
times ranked

652
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Signature files. ACM Transactions on Information Systems, 1984, 2, 267-288. | 3.8 | 253 |
| 2 | Principles of delay-sensitive multimedia data storage retrieval. ACM Transactions on Information Systems, 1992, 10, 51-90. | 3.8 | 194 |
| 3 | On the propagation of errors in the size of join results. , 1991, , . | | 147 |
| 4 | Description and performance analysis of signature file methods for office filing. ACM Transactions on Information Systems, 1987, 5, 237-257. | 3.8 | 88 |
| 5 | Estimating record selectivities. Information Systems, 1983, 8, 105-115. | 2.4 | 87 |
| 6 | Design Considerations for a Message File Server. IEEE Transactions on Software Engineering, 1984, SE-10, 201-210. | 4.3 | 84 |
| 7 | Optimal histograms for limiting worst-case error propagation in the size of join results. ACM Transactions on Database Systems, 1993, 18, 709-748. | 1.5 | 83 |
| 8 | Message files. ACM Transactions on Information Systems, 1983, 1, 88-98. | 3.8 | 56 |
| 9 | Estimating block transfers and join sizes. , 1983, , . | | 56 |
| 10 | Ontology-Based Semantic Indexing for MPEG-7 and TV-Anytime Audiovisual Content. Multimedia Tools and Applications, 2005, 26, 299-325. | 2.6 | 52 |
| 11 | Integration of OWL Ontologies in MPEG-7 and TV-Anytime Compliant Semantic Indexing. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2004, , 398-413. | 0.2 | 45 |
| 12 | Interoperability Support between MPEG-7/21 and OWL in DS-MIRF. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 219-232. | 4.0 | 44 |
| 13 | Interoperability Support for Ontology-Based Video Retrieval Applications. Lecture Notes in Computer Science, 2004, , 582-591. | 1.0 | 43 |
| 14 | Design and Performance Considerations for an Optical Disk-Based, Multimedia Object Server. Computer, 1986, 19, 45-56. | 1.2 | 36 |
| 15 | Analysis of retrieval performance for records and objects using optical disk technology. ACM Transactions on Database Systems, 1987, 12, 137-169. | 1.5 | 29 |
| 16 | SPARQL-RW. , 2012, , . | | 29 |
| 17 | Estimating block selectivities. Information Systems, 1984, 9, 69-79. | 2.4 | 28 |
| 18 | An Ontology-Driven Framework for the Management of Semantic Metadata Describing Audiovisual Information. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2003, , 340-356. | 0.2 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Optimal signature extraction and information loss. ACM Transactions on Database Systems, 1987, 12, 395-428. | 1.5 | 25 |
| 20 | Ontology Mapping and SPARQL Rewriting for Querying Federated RDF Data Sources. Lecture Notes in Computer Science, 2010, , 1108-1117. | 1.0 | 21 |
| 21 | The XML and Semantic Web Worlds: Technologies, Interoperability and Integration: A Survey of the State of the Art. Studies in Computational Intelligence, 2013, , 319-360. | 0.7 | 20 |
| 22 | The SPARQL2XQuery interoperability framework. World Wide Web, 2015, 18, 403-490. | 2.7 | 19 |
| 23 | A natural language model for managing TV-Anytime information in mobile environments. Personal and Ubiquitous Computing, 2005, 9, 262-272. | 1.9 | 18 |
| 24 | Research and development issues for large-scale multimedia information systems. ACM Computing Surveys, 1995, 27, 576-579. | 16.1 | 17 |
| 25 | A comprehensive analytical performance model for disk devices under random workloads. IEEE Transactions on Knowledge and Data Engineering, 2002, 14, 140-155. | 4.0 | 16 |
| 26 | Interoperability of XML Schema Applications with OWL Domain Knowledge and Semantic Web Tools. , 2007, , 850-869. | | 15 |
| 27 | Querying XML Data with SPARQL. Lecture Notes in Computer Science, 2009, , 372-381. | 1.0 | 15 |
| 28 | Picture Context Capturing for Mobile Databases. IEEE MultiMedia, 2010, 17, 34-41. | 1.5 | 13 |
| 29 | Towards a Mediator Based on OWL and SPARQL. Lecture Notes in Computer Science, 2009, , 326-335. | 1.0 | 13 |
| 30 | Optimal data placement on disks: a comprehensive solution for different technologies. IEEE Transactions on Knowledge and Data Engineering, 2000, 12, 324-330. | 4.0 | 12 |
| 31 | A User Preference Model and a Query Language that allow Semantic Retrieval and Filtering of Multimedia Content. , 2006, , . | | 12 |
| 32 | The MPEG-7 query format: a new standard in progress for multimedia query by content. , 2007, , . | | 12 |
| 33 | XS2OWL: A Formal Model and a System for Enabling XML Schema Applications to Interoperate with OWL-DL Domain Knowledge and Semantic Web Tools. , 2007, , 124-136. | | 12 |
| 34 | An MPEG-7 query language and a user preference model that allow semantic retrieval and filtering of multimedia content. Multimedia Systems, 2007, 13, 131-153. | 3.0 | 11 |
| 35 | Optimal placement of high-probability randomly retrieved blocks on CLV optical discs. ACM Transactions on Information Systems, 1991, 9, 1-30. | 3.8 | 10 |
| 36 | Performance analysis and fundamental performance tradeoffs for CLV optical disks. SIGMOD Record, 1988, 17, 286-294. | 0.7 | 9 |

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|----|--|-----|-----------|
| 37 | A Knowledge Management Platform for Supporting Digital Business Ecosystems based on P2P and SOA technologies. , 2007, , . | | 9 |
| 38 | Rich metadata and context capturing through CIDOC/CRM and MPEG-7 interoperability. , 2008, , . | | 9 |
| 39 | The OntoNL Framework for Natural Language Interface Generation and a Domain-Specific Application. , 2007, , 228-237. | | 9 |
| 40 | Performance analysis and fundamental performance tradeoffs for CLV optical disks. , 1988, , . | | 8 |
| 41 | A Pedagogy-driven Personalization Framework to Support Adaptive Learning Experiences. , 2007, , . | | 8 |
| 42 | SPARQL2XQuery 2.0: Supporting Semantic-based queries over XML data. , 2010, , . | | 8 |
| 43 | Metadata Management and Sharing in Multimedia Open Learning Environment (MOLE). Communications in Computer and Information Science, 2011, , 275-286. | 0.4 | 8 |
| 44 | COLearn and open discovery space portal alignment: A case of enriching open learning infrastructures with collaborative learning capabilities. , 2014, , . | | 8 |
| 45 | Metadata management, interoperability and Linked Data publishing support for Natural History Museums. International Journal on Digital Libraries, 2014, 14, 127-140. | 1.1 | 8 |
| 46 | Semantic Based Access over XML Data. Lecture Notes in Computer Science, 2009, , 259-267. | 1.0 | 8 |
| 47 | Multimedia Content Description Using Semantic Web Languages. , 2008, , 17-54. | | 7 |
| 48 | A Pedagogy-Driven Personalization Framework to Support Automatic Construction of Adaptive Learning Experiences. , 2007, , 55-65. | | 6 |
| 49 | Retrieval performance versus disc space utilization on WORM optical discs. , 1989, , . | | 5 |
| 50 | Mobile Multimedia Event Capturing and Visualization (MOME). , 2011, , . | | 5 |
| 51 | Mapping MPEG-7 to CIDOC/CRM. Lecture Notes in Computer Science, 2011, , 40-51. | 1.0 | 5 |
| 52 | HIFI: hypertext interface for information: multimedia and relational databases. Electronic Library, 1993, 11, 65-71. | 0.8 | 4 |
| 53 | Semantic Processing of Natural Language Queries in the OntoNL Framework. , 2007, , . | | 4 |
| 54 | Querying MOF Repositories: The Design and Implementation of the Query Metamodel Language (QML). , 2007, , . | | 4 |

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| 55 | Semantic maps and mobile context capturing for picture content visualization and management of picture databases. , 2008, , . | | 4 |
| 56 | Bringing Environmental Culture Content into the Europeana.eu Portal: The Natural Europe Digital Libraries Federation Infrastructure. Communications in Computer and Information Science, 2011, , 400-411. | 0.4 | 4 |
| 57 | CoLearn: Real time collaborative learning environment. , 2013, , . | | 4 |
| 58 | Federating Natural History Museums in Natural Europe. Communications in Computer and Information Science, 2013, , 361-372. | 0.4 | 4 |
| 59 | Design, Implementation and Evaluation of a Computer Science Teacher Training Programme for Learning and Teaching of Python Inside and Outside School. Advances in Intelligent Systems and Computing, 2018, , 575-586. | 0.5 | 4 |
| 60 | Data base design principles for striping and placement of delay-sensitive data on disks. , 1998, , . | | 3 |
| 61 | The OntoNL Semantic Relatedness Measure for OWL ontologies. , 2007, , . | | 3 |
| 62 | EVISUGE: Event Visualization on Google Earth. , 2011, , . | | 3 |
| 63 | Octopus: A collaborative environment supporting the development of effective instructional design. , 2013, , . | | 3 |
| 64 | MoM-NOCS. , 2013, , . | | 3 |
| 65 | Issues in the Design of a Distributed Testbed for Multimedia Information Systems (MINOS). Journal of Management Information Systems, 1987, 4, 8-33. | 2.1 | 2 |
| 66 | Retrieval performance versus disc space utilization on WORM optical discs. SIGMOD Record, 1989, 18, 306-314. | 0.7 | 2 |
| 67 | Exploiting Cultural Heritage Documentation in Semantic Multimedia Annotations. , 2007, , . | | 2 |
| 68 | ViSTPro: Spatiotemporal processes visualization in engineering education and crisis training. , 2017, , . | | 2 |
| 69 | Database design principles for placement of delay-sensitive data on disks. IEEE Transactions on Knowledge and Data Engineering, 1999, 11, 425-447. | 4.0 | 1 |
| 70 | Multimedia contents and management. International Journal on Digital Libraries, 2006, 6, 1-2. | 1.1 | 1 |
| 71 | Personalised spatial knowledge management for pictures using ontologies and semantic maps. International Journal of Digital Culture and Electronic Tourism, 2009, 1, 346. | 0.1 | 1 |
| 72 | Contextual Geospatial Picture Understanding, Management and Visualization. , 2013, , . | | 1 |

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|----|--|-----|-----------|
| 73 | Data management research at the technical university of crete. SIGMOD Record, 2014, 42, 61-66. | 0.7 | 1 |
| 74 | Performative Framework and Case Study for Technology-Enhanced Learning Communities. Informatics and Automation, 2021, 20, 905-939. | 0.6 | 1 |
| 75 | Integrated Authoring, Annotation, Retrieval, Adaptation, Personalization, and Delivery for Multimedia. Lecture Notes in Computer Science, 2007, , 87-103. | 1.0 | 1 |
| 76 | File organizations with shared overflow blocks for variable length objects. Information Systems, 1992, 17, 491-509. | 2.4 | 0 |
| 77 | SSLE: A Language and an Interactive Editor for the Semantic Description of Services in MOF Architectures. , 2007, , . | | 0 |
| 78 | A crowdsourcing framework for the management of mobile multimedia nature observations. International Journal of Pervasive Computing and Communications, 2014, 10, 216-238. | 1.1 | 0 |
| 79 | ViSTPro: A platform for visualization of spatiotemporal processes on Google Earth. , 2016, , . | | 0 |
| 80 | A Model for Mobile Multimedia Capturing. Lecture Notes in Computer Science, 2009, , 386-394. | 1.0 | 0 |
| 81 | Spatial Information Retrieval from Images Using Ontologies and Semantic Maps. Lecture Notes in Computer Science, 2008, , 549-556. | 1.0 | 0 |
| 82 | Semantic Processing of Natural Language Queries in the OntoNL Framework. , 2007, , . | | 0 |
| 83 | Exploiting Cultural Heritage Documentation in Semantic Multimedia Annotations. , 2007, , . | | 0 |