MarÃa Esther Vidal

List of Publications by Year
in descending order

160 papers	1,824 citations	566801 15 h-index	454577 30 g-index
171 all docs	171 docs citations	171 times ranked	1125 citing authors

#	Article	IF	Citations
1	Bias in data‐driven artificial intelligence systems—An introductory survey. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1356.	4.6	265
2	ANAPSID: An Adaptive Query Processing Engine for SPARQL Endpoints. Lecture Notes in Computer Science, 2011, , 18-34.	1.0	112
3	Towards a Knowledge Graph for Science. , 2018, , .		76
4	Why Reinvent the Wheel. , 2018, , .		71
5	Efficiently Joining Group Patterns in SPARQL Queries. Lecture Notes in Computer Science, 2010, , 228-242.	1.0	57
6	SDM-RDFizer. , 2020, , .		41
7	The industry 4.0 standards landscape from a semantic integration perspective. , 2017, , .		40
8	Falcon 2.0. , 2020, , .		39
9	Wrapper generation for Web accessible data sources. , 1998, , .		37
10	PATH-BASED SYSTEMS TO GUIDE SCIENTISTS IN THE MAZE OF BIOLOGICAL DATA SOURCES. Journal of Bioinformatics and Computational Biology, 2006, 04, 1069-1095.	0.3	35
11	Efficient evaluation of queries in a mediator for WebSources. , 2002, , .		34
12	A Knowledge Graph for Industry 4.0. Lecture Notes in Computer Science, 2020, , 465-480.	1.0	32
13	Drug-Target Interaction Prediction Using Semantic Similarity and Edge Partitioning. Lecture Notes in Computer Science, 2014, , 131-146.	1.0	31
14	Networks of Linked Data Eddies: An Adaptive Web Query Processing Engine for RDF Data. Lecture Notes in Computer Science, 2015, , 111-127.	1.0	30
15	Benchmarking Federated SPARQL Query Engines: Are Existing Testbeds Enough?. Lecture Notes in Computer Science, 2012, , 313-324.	1.0	26
16	Ontario: Federated Query Processing Against a Semantic Data Lake. Lecture Notes in Computer Science, 2019, , 379-395.	1.0	23
17	Semantic Data Integration for Knowledge Graph Construction at Query Time. , 2017, , .		21
18	Evaluation of metadata representations in RDF stores. Semantic Web, 2019, 10, 205-229.	1.1	21

#	Article	IF	Citations
19	The BigDataEurope Platform â€" Supporting the Variety Dimension of Big Data. Lecture Notes in Computer Science, 2017, , 41-59.	1.0	21
20	Efficient Techniques to Explore and Rank Paths in Life Science Data Sources. Lecture Notes in Computer Science, 2004, , 187-202.	1.0	21
21	Enhancing answer completeness of SPARQL queries via crowdsourcing. Web Semantics, 2017, 45, 41-62.	2.2	19
22	On the Selection of SPARQL Endpoints to Efficiently Execute Federated SPARQL Queries. Lecture Notes in Computer Science, 2016, , 109-149.	1.0	18
23	MINTE. , 2017, , .		18
24	Federated SPARQL Queries Processing with Replicated Fragments. Lecture Notes in Computer Science, 2015, , 36-51.	1.0	18
25	A meta-wrapper for scaling up to multiple autonomous distributed information sources. , 1998, , .		15
26	MULDER: Querying the Linked Data Web by Bridging RDF Molecule Templates. Lecture Notes in Computer Science, 2017, , 3-18.	1.0	15
27	Capturing Knowledge in Semantically-typed Relational Patterns to Enhance Relation Linking. , 2017, , .		15
28	Techniques to Produce Optimal Web Service Compositions. , 2008, , .		14
29	Measuring Relatedness Between Scientific Entities in Annotation Datasets. , 2013, , .		14
30	Transforming Heterogeneous Data into Knowledge for Personalized Treatmentsâ€"AÂUse Case. Datenbank-Spektrum, 2019, 19, 95-106.	1.2	14
31	Trav-SHACL: Efficiently Validating Networks of SHACL Constraints. , 2021, , .		14
32	Unveiling Scholarly Communities over Knowledge Graphs. Lecture Notes in Computer Science, 2018, , 103-115.	1.0	14
33	Finding Cross Genome Patterns in Annotation Graphs. Lecture Notes in Computer Science, 2012, , 21-36.	1.0	14
34	Towards Semantification of Big Data Technology. Lecture Notes in Computer Science, 2016, , 376-390.	1.0	13
35	GADES. , 2016, , .		13
36	Decomposing federated queries in presence of replicated fragments. Web Semantics, 2017, 42, 1-18.	2.2	13

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37	No one is perfect: Analysing the performance of question answering components over the DBpedia knowledge graph. Web Semantics, 2020, 65, 100594.	2.2	13
38	Top-k Skyline: A Unified Approach. Lecture Notes in Computer Science, 2005, , 790-799.	1.0	13
39	Reaching the Top of the Skyline: An Efficient Indexed Algorithm for Top-k Skyline Queries. Lecture Notes in Computer Science, 2009, , 471-485.	1.0	13
40	Traditional Machine Learning Models and Bidirectional Encoder Representations From Transformer (BERT)â€"Based Automatic Classification of Tweets About Eating Disorders: Algorithm Development and Validation Study. JMIR Medical Informatics, 2022, 10, e34492.	1.3	13
41	BioNavigation: Selecting Optimum Paths Through Biological Resources to Evaluate Ontological Navigational Queries. Lecture Notes in Computer Science, 2005, , 275-283.	1.0	12
42	FunMap: Efficient Execution of Functional Mappings for Knowledge Graph Creation. Lecture Notes in Computer Science, 2020, , 276-293.	1.0	12
43	Query evaluation and optimization in the semantic web. Theory and Practice of Logic Programming, 2008, 8, 393-409.	1.1	11
44	Flexible and efficient querying and ranking on hyperlinked data sources. , 2009, , .		11
45	Diefficiency Metrics: Measuring the Continuous Efficiency of Query Processing Approaches. Lecture Notes in Computer Science, 2017, , 3-19.	1.0	11
46	Knowledge Graphs for Semantically Integrating Cyber-Physical Systems. Lecture Notes in Computer Science, 2018, , 184-199.	1.0	11
47	Analyzing Linked Data Quality with LiQuate. Lecture Notes in Computer Science, 2013, , 629-638.	1.0	10
48	A big data architecture for managing oceans of data and maritime applications. , 2017, , .		10
49	Enhancing virtual ontology based access over tabular data with Morph-CSV. Semantic Web, 2021, 12, 869-902.	1.1	10
50	Integration of Scholarly Communication Metadata Using Knowledge Graphs. Lecture Notes in Computer Science, 2017, , 328-341.	1.0	10
51	BioFast. SIGMOD Record, 2004, 33, 72-77.	0.7	9
52	Ranking target objects of navigational queries. , 2006, , .		9
53	What Are the Parameters that Affect the Construction of a Knowledge Graph?. Lecture Notes in Computer Science, 2019, , 695-713.	1.0	9
54	Unveiling Relations in the Industry 4.0 Standards Landscape Based on Knowledge Graph Embeddings. Lecture Notes in Computer Science, 2020, , 179-194.	1.0	9

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55	BiOnMap. , 2008, , .		9
56	Experiences of sampling-based approaches for estimating QoS parameters in the Web Service composition problem. International Journal of Web and Grid Services, 2012, 8, 1.	0.4	8
57	Semantic Data Integration of Big Biomedical Data for Supporting Personalised Medicine. Studies in Computational Intelligence, 2019, , 25-56.	0.7	8
58	MapSDI: A Scaled-Up Semantic Data Integration Framework for Knowledge Graph Creation. Lecture Notes in Computer Science, 2019, , 58-75.	1.0	8
59	Challenges in selecting paths for navigational queries. , 2004, , .		7
60	Compacting frequent star patterns in RDF graphs. Journal of Intelligent Information Systems, 2020, 55, 561-585.	2.8	7
61	Alligator: A Deductive Approach for the Integration of Industry 4.0 Standards. Lecture Notes in Computer Science, 2016, , 272-287.	1.0	7
62	Towards an Integrated Graph Algebra for Graph Pattern Matching with Gremlin. Lecture Notes in Computer Science, 2017, , 81-91.	1.0	7
63	An Expressive and Efficient Solution to the Service Selection Problem. Lecture Notes in Computer Science, 2010, , 386-401.	1.0	7
64	A Transactional-QoS Driven Approach for Web Service Composition. Lecture Notes in Computer Science, 2012, , 23-42.	1.0	7
65	BOUNCER: Privacy-Aware Query Processing over Federations of RDF Datasets. Lecture Notes in Computer Science, 2018, , 69-84.	1.0	7
66	PAnG. , 2012, , .		6
67	HARE. , 2015, , .		6
68	SMJoin. , 2017, , .		6
69	Maritime data technology landscape and value chain exploiting oceans of data for maritime applications. , 2017, , .		6
70	iASiS: Towards Heterogeneous Big Data Analysis for Personalized Medicine. , 2019, , .		6
71	Summarizing Entity Temporal Evolution in Knowledge Graphs. , 2019, , .		6
72	FuhSen: A Federated Hybrid Search Engine forÂBuilding a Knowledge Graph On-Demand (Short Paper). Lecture Notes in Computer Science, 2016, , 752-761.	1.0	6

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73	Considering Semantics on the Discovery of Relations in Knowledge Graphs. Lecture Notes in Computer Science, 2016, , 666-680.	1.0	6
74	Aggregating Functional and Non-Functional Properties to Identify Service Compositions. Advances in Web Technologies and Engineering Book Series, 2011, , 145-174.	0.4	6
75	A Deductive Approach for Resource Interoperability and Well-Defined Workflows. Lecture Notes in Computer Science, 2008, , 998-1009.	1.0	6
76	Customized and Optimized Service Selection with ProtocolDB. Lecture Notes in Computer Science, 2009, , 112-123.	1.0	6
77	To Cache or Not To Cache: The Effects of Warming Cache in Complex SPARQL Queries. Lecture Notes in Computer Science, 2011, , 716-733.	1.0	6
78	Preferred Skyline: A Hybrid Approach Between SQLf and Skyline. Lecture Notes in Computer Science, 2005, , 375-384.	1.0	5
79	Chapter 5 Federated Query Processing. Lecture Notes in Computer Science, 2020, , 73-86.	1.0	5
80	Deductive Web Services: An Ontology-Driven Approach for Service Interoperability in Life Science. , 2007, , 1338-1347.		5
81	SKG4EOSC - Scholarly Knowledge Graphs for EOSC: Establishing a backbone of knowledge graphs for FAIR Scholarly Information in EOSC. Research Ideas and Outcomes, 0, 8, .	1.0	5
82	Responsible Knowledge Management in Energy Data Ecosystems. Energies, 2022, 15, 3973.	1.6	5
83	Source selection and ranking in the websemantics architecture using quality of data metadata. Advances in Computers, 2002, , 87-118.	1.2	4
84	An authority-flow based ranking approach to discover potential novel associations between Linked Data. Semantic Web, 2014, 5, 23-46.	1.1	4
85	QAestro â€" Semantic-Based Composition of Question Answering Pipelines. Lecture Notes in Computer Science, 2017, , 19-34.	1.0	4
86	Large-scale storage and query processing for semantic sensor data. , 2017, , .		4
87	Semantic Data Integration Techniques for Transforming Big Biomedical Data into Actionable Knowledge. , 2019, , .		4
88	IOTA: Interlinking of heterogeneous multilingual open fiscal DaTA. Expert Systems With Applications, 2020, 147, 113135.	4.4	4
89	Analyzing a Knowledge Graph of IndustryÂ4.0 Standards. , 2021, , .		4
90	RDF-ization of DICOM Medical Images towards Linked Health Data Cloud. IFMBE Proceedings, 2015, , 757-760.	0.2	4

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91	MateTee: A Semantic Similarity Metric Based on Translation Embeddings for Knowledge Graphs. Lecture Notes in Computer Science, 2017, , 246-263.	1.0	4
92	Querying Interlinked Data by Bridging RDF Molecule Templates. Lecture Notes in Computer Science, 2018, , 1-42.	1.0	4
93	EABlock. , 2022, , .		4
94	A sampling-based approach to identify QoS for web service orchestrations. , 2010, , .		3
95	Determining similarity of scientific entities in annotation datasets. Database: the Journal of Biological Databases and Curation, 2015, 2015, .	1.4	3
96	An automatic method for the enrichment of DICOM metadata using biomedical ontologies. , 2015, 2015, 2551-4.		3
97	OnSim: A Similarity Measure for Determining Relatedness Between Ontology Terms. Lecture Notes in Computer Science, 2015, , 70-86.	1.0	3
98	AnnEvol: An Evolutionary Framework to Description Ontology-Based Annotations. Lecture Notes in Computer Science, 2015, , 87-103.	1.0	3
99	DESERT: A Continuous SPARQL Query Engine for On-Demand Query Answering. International Journal of Semantic Computing, 2018, 12, 373-397.	0.4	3
100	Dynamic Composition of Question Answering Pipelines with FRANKENSTEIN. , 2018, , .		3
101	Synthesizing Knowledge Graphs from Web Sources with the MINTE$$^+$$ Framework. Lecture Notes in Computer Science, 2018, , 359-375.	1.0	3
102	PURE: A Privacy Aware Rule-Based Framework over Knowledge Graphs. Lecture Notes in Computer Science, 2019, , 205-214.	1.0	3
103	Graphium Chrysalis: Exploiting Graph Database Engines to Analyze RDF Graphs. Lecture Notes in Computer Science, 2014, , 326-331.	1.0	3
104	Intelligent Clients for Replicated Triple Pattern Fragments. Lecture Notes in Computer Science, 2018, , 400-414.	1.0	3
105	GARUM: A Semantic Similarity Measure Based on Machine Learning and Entity Characteristics. Lecture Notes in Computer Science, 2018, , 169-183.	1.0	3
106	Efficiently Selecting the Best Web Services. Lecture Notes in Computer Science, 2010, , 120-139.	1.0	3
107	FOPA: A Final Object Pruning Algorithm to Efficiently Produce Skyline Points. Lecture Notes in Computer Science, 2013, , 334-348.	1.0	3
108	Proactive Prevention of False-Positive Conflicts in Distributed Ontology Development. , 2016, , .		3

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109	Chapter 9 Survey on Big Data Applications. Lecture Notes in Computer Science, 2020, , 149-164.	1.0	3
110	Chapter 8 Context-Based Entity Matching for Big Data. Lecture Notes in Computer Science, 2020, , 122-146.	1.0	3
111	WebMedSA: a web-based framework for segmenting and annotating medical images using biomedical ontologies. , 2015, , .		2
112	Exploiting information content and semantics to accurately compute similarity of GO-based annotated entities. , 2015, , .		2
113	Mobile teleradiology system suitable for m-health services supporting content and semantic based image retrieval on a grid infrastructure. , 2016, 2016, 5380-5383.		2
114	SJoin: A Semantic Join Operator to Integrate Heterogeneous RDF Graphs. Lecture Notes in Computer Science, 2017, , 206-221.	1.0	2
115	Classifying Data Heterogeneity within Budget and Spending Open Data. , 2018, , .		2
116	Seamless integration of cyber-physical systems in knowledge graphs. , 2018, , .		2
117	Managing the evolution and preservation of the data web. Web Semantics, 2019, 54, 1-3.	2.2	2
118	Compact representations for efficient storage of semantic sensor data. Journal of Intelligent Information Systems, 2021, 57, 203.	2.8	2
119	Calibrating Mini-Mental State Examination Scores to Predict Misdiagnosed Dementia Patients. Applied Sciences (Switzerland), 2021, 11, 8055.	1.3	2
120	Medical Image Rendering and Description Driven by Semantic Annotations. Lecture Notes in Computer Science, 2013, , 123-149.	1.0	2
121	Traversing the Linking Open Data Cloud to Create News from Tweets. Lecture Notes in Computer Science, 2014, , 479-488.	1.0	2
122	LiQuate-Estimating the Quality of Links in the Linking Open Data Cloud. Lecture Notes in Computer Science, 2013, , 56-82.	1.0	2
123	Towards a Multi-way Similarity Join Operator. Communications in Computer and Information Science, 2017, , 267-274.	0.4	2
124	Ranking Knowledge Graphs By Capturing Knowledge about Languages and Labels. , 2019, , .		2
125	Efficient semantic summary graphs for querying large knowledge graphs. International Journal of Information Management Data Insights, 2022, 2, 100082.	6.5	2
126	A Non-Chronological Backtracking Unfolding Algorithm for Transactional Web Service Composition. Procedia Computer Science, 2012, 10, 888-893.	1.2	1

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127	SemVisM: semantic visualizer for medical image. , 2015, , .		1
128	OpenBudgets.eu: A Platform for Semantically Representing and Analyzing Open Fiscal Data. Lecture Notes in Computer Science, 2018, , 433-447.	1.0	1
129	Magic Rewritings for Efficiently Processing Reactivity on Web Ontologies. Lecture Notes in Computer Science, 2008, , 1338-1354.	1.0	1
130	Efficiently Producing the K Nearest Neighbors in the Skyline for Multidimensional Datasets. Lecture Notes in Computer Science, 2012, , 673-676.	1.0	1
131	DEFENDER: A DEcomposer for quEries agaiNst feDERations of Endpoints. Lecture Notes in Computer Science, 2015, , 480-484.	1.0	1
132	D-FOPA: A Dynamic Final Object Pruning Algorithm to Efficiently Produce Skyline Points Over Data Streams. Lecture Notes in Computer Science, 2015, , 117-133.	1.0	1
133	SerVCS: Serialization Agnostic Ontology Development in Distributed Settings. Communications in Computer and Information Science, 2019, , 213-232.	0.4	1
134	COMET: A Contextualized Molecule-Based Matching Technique. Lecture Notes in Computer Science, 2019, , 175-185.	1.0	1
135	Decomposing Federated Queries in Presence of Replicated Fragments. SSRN Electronic Journal, 0, , .	0.4	0
136	Shipping Knowledge Graph Management Capabilities to Data Providers and Consumers. , 2018, , .		0
137	Semantic Enrichment of IoT Stream Data On-demand. , 2018, , .		0
138	SAANSET: Semi-Automated Acquisition of Scholarly Metadata Using OpenResearch.org Platform. , 2018, , .		0
139	EffTE. , 2018, , .		0
140	HARE. , 2018, , .		0
141	Expressing and Managing Reactivity in the Semantic Web. Lecture Notes in Computer Science, 2010, , 1018-1035.	1.0	0
142	Challenges of Quality-Driven Resource Discovery. Lecture Notes in Computer Science, 2012, , 181-189.	1.0	0
143	Ranking and Clustering Techniques to Support an Efficient E-Democracy. Lecture Notes in Computer Science, 2012, , 298-301.	1.0	0
144	Mining Electoral Data for Effective Campaigns and E-Participation. Advances in Electronic Government, Digital Divide, and Regional Development Book Series, 2013, , 59-82.	0.2	0

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145	FRAGOLA: Fabulous RAnking of GastrOnomy LocAtions. Lecture Notes in Computer Science, 2013, , 408-413.	1.0	0
146	Efficiently Producing the K Nearest Neighbors in the Skyline on Vertically Partitioned Tables. International Journal of Information Retrieval Research, 2013, 3, 58-77.	0.6	0
147	Exploiting Semantics from Ontologies and Shared Annotations to Partition Linked Data. Lecture Notes in Computer Science, 2014, , 120-127.	1.0	0
148	SemLAV: Querying Deep Web and Linked Open Data with SPARQL. Lecture Notes in Computer Science, 2014, , 332-337.	1.0	0
149	Combining Multiple Knowledge Sources: A Case Study of Drug Induced Liver Injury. Lecture Notes in Computer Science, 2015, , 3-12.	1.0	0
150	Challenges for Semantically Driven Collaborative Spaces. Lecture Notes in Computer Science, 2016, , 3-9.	1.0	0
151	Factorization Techniques for Longitudinal Linked Data (Short Paper). Lecture Notes in Computer Science, 2016, , 690-698.	1.0	0
152	Comparing MapReduce and Pipeline Implementations for Counting Triangles. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 237, 20-33.	0.8	0
153	Enhancing Answer Completeness of SPARQL Queries via Crowdsourcing. SSRN Electronic Journal, 0, , .	0.4	0
154	Ulysses: An Intelligent Client for Replicated Triple Pattern Fragments. Lecture Notes in Computer Science, 2018, , 182-186.	1.0	0
155	A Knowledge-Driven Pipeline for Transforming Big Data into Actionable Knowledge. Lecture Notes in Computer Science, 2019, , 44-49.	1.0	0
156	Poster Paper Data Integration for Supporting Biomedical Knowledge Graph Creation at Large-Scale. Lecture Notes in Computer Science, 2019, , 91-96.	1.0	0
157	FedSDM: Semantic Data Manager for Federations of RDF Datasets. Lecture Notes in Computer Science, 2019, , 85-90.	1.0	0
158	Interaction Network Analysis Using Semantic Similarity Based on Translation Embeddings. Lecture Notes in Computer Science, 2019, , 249-255.	1.0	0
159	Evaluating Top-k Skyline Queries Efficiently. Advances in Data Mining and Database Management Book Series, 0, , 102-117.	0.4	0
160	On the Efficiency of Querying and Storing RDF Documents. Advances in Data Mining and Database Management Book Series, 0, , 354-385.	0.4	0