

# Nick Bassiliades

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

2,034  
citations

23  
h-index

40  
g-index

169  
ext. papers

2,414  
ext. citations

2.5  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
151	Ontology-based sentiment analysis of twitter posts. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 4065-4074	7.8	231
150	A Survey of Agent Platforms. <i>Jasss</i> , <b>2015</b> , 18,	4.8	166
149	Managing Electric Vehicles in the Smart Grid Using Artificial Intelligence: A Survey. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 1619-1635	6.1	143
148	A Defeasible Logic Reasoner for the Semantic Web. <i>International Journal on Semantic Web and Information Systems</i> , <b>2006</b> , 2, 1-41	1.4	66
147	Structural and Role-Oriented Web Service Discovery with Taxonomies in OWL-S. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2010</b> , 22, 278-290	4.2	65
146	An Integrated Approach to Automated Semantic Web Service Composition through Planning. <i>IEEE Transactions on Services Computing</i> , <b>2012</b> , 5, 319-332	4.8	60
145	An adaptive personalized news dissemination system. <i>Journal of Intelligent Information Systems</i> , <b>2009</b> , 32, 191-212	2.1	50
144	Combining community-based knowledge with association rule mining to alleviate the cold start problem in context-aware recommender systems. <i>Expert Systems With Applications</i> , <b>2018</b> , 101, 78-90	7.8	47
143	BOnSAI <b>2012</b> ,		46
142	A process-oriented ontology-based knowledge management system for facilitating operational procedures in public administration. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 4467-4478	7.8	41
141	An empirical study on sea water quality prediction. <i>Knowledge-Based Systems</i> , <b>2008</b> , 21, 471-478	7.3	40
140	CoLan: A functional constraint language and its implementation. <i>Data and Knowledge Engineering</i> , <b>1995</b> , 14, 203-249	1.5	39
139	An ontology-based planning system for e-course generation. <i>Expert Systems With Applications</i> , <b>2008</b> , 35, 398-406	7.8	38
138	Offline and Online Electric Vehicle Charging Scheduling With V2V Energy Transfer. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 2128-2138	6.1	37
137	A Rule-Based Object-Oriented OWL Reasoner. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2008</b> , 20, 397-410	4.2	36
136	DR-NEGOTIATE A system for automated agent negotiation with defeasible logic-based strategies. <i>Data and Knowledge Engineering</i> , <b>2007</b> , 63, 362-380	1.5	36
135	DLEJena: A practical forward-chaining OWL 2 RL reasoner combining Jena and Pellet. <i>Web Semantics</i> , <b>2010</b> , 8, 89-94	2.9	31

134	DR-DEVICE: A Defeasible Logic System for the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 134-148	0.9	30
133	An ontology-based decision support tool for optimizing domestic solar hot water system selection. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 4636-4646	10.3	29
132	Congestion management for urban EV charging systems <b>2013</b> ,		29
131	Rule-based approaches for energy savings in an ambient intelligence environment. <i>Pervasive and Mobile Computing</i> , <b>2015</b> , 19, 1-23	3.5	25
130	EMERALD: A Multi-Agent System for Knowledge-Based Reasoning Interoperability in the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 173-182	0.9	25
129	Towards an optimal EV charging scheduling scheme with V2G and V2V energy transfer <b>2016</b> ,		25
128	Visualizing Semantic Web proofs of defeasible logic in the DR-DEVICE system. <i>Knowledge-Based Systems</i> , <b>2011</b> , 24, 406-419	7.3	23
127	The PORSCHE II framework: using AI planning for automated Semantic Web service composition. <i>Knowledge Engineering Review</i> , <b>2013</b> , 28, 137-156	2.1	21
126	Deploying defeasible logic rule bases for the semantic web. <i>Data and Knowledge Engineering</i> , <b>2008</b> , 66, 116-146	1.5	21
125	Algorithms for electric vehicle scheduling in large-scale mobility-on-demand schemes. <i>Artificial Intelligence</i> , <b>2018</b> , 262, 248-278	3.6	20
124	A semantic recommendation algorithm for the PaaSSport platform-as-a-service marketplace. <i>Expert Systems With Applications</i> , <b>2017</b> , 67, 203-227	7.8	19
123	DR-BROKERING: A semantic brokering system. <i>Knowledge-Based Systems</i> , <b>2007</b> , 20, 61-72	7.3	19
122	Monitoring water quality through a telematic sensor network and a fuzzy expert system. <i>Expert Systems</i> , <b>2007</b> , 24, 143-161	2.1	19
121	R-DEVICE. <i>International Journal on Semantic Web and Information Systems</i> , <b>2006</b> , 2, 24-90	1.4	19
120	On the Combination of Textual and Semantic Descriptions for Automated Semantic Web Service Classification. <i>IFIP Advances in Information and Communication Technology</i> , <b>2009</b> , 95-104	0.5	18
119	SPARSE: A symptom-based antipattern retrieval knowledge-based system using Semantic Web technologies. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 7633-7646	7.8	18
118	EVLlibSim: A tool for the simulation of electric vehicles charging stations using the EVLib library. <i>Simulation Modelling Practice and Theory</i> , <b>2018</b> , 87, 99-119	3.9	16
117	RuleML representation and simulation of Fuzzy Cognitive Maps. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1413-1426	7.8	16

116	The Tomaco Hybrid Matching Framework for SAWSDL Semantic Web Services. <i>IEEE Transactions on Services Computing</i> , <b>2016</b> , 9, 954-967	4.8	13
115	A combinatory framework of Web 2.0 mashup tools, OWL-S and UDDI. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 6657-6668	7.8	12
114	Processing production rules in DEVICE, an active knowledge base system. <i>Data and Knowledge Engineering</i> , <b>1997</b> , 24, 117-155	1.5	12
113	DR-NEGOTIATE - a system for automated agent negotiation with defeasible logic-based strategies		11
112	. <i>IEEE Intelligent Systems</i> , <b>2002</b> , 17, 62-72	4.2	11
111	A Modal Defeasible Reasoner of Deontic Logic for the Semantic Web. <i>International Journal on Semantic Web and Information Systems</i> , <b>2011</b> , 7, 18-43	1.4	11
110	PaaSport semantic model: An ontology for a platform-as-a-service semantically interoperable marketplace. <i>Data and Knowledge Engineering</i> , <b>2018</b> , 113, 81-115	1.5	11
109	StoRM: A social agent-based trust model for the internet of things adopting microservice architecture. <i>Simulation Modelling Practice and Theory</i> , <b>2019</b> , 94, 286-302	3.9	10
108	DEVICE: Compiling production rules into event-driven rules using complex events. <i>Information and Software Technology</i> , <b>1997</b> , 39, 331-342	3.4	10
107	An agent-based negotiation scheme for the distribution of electric vehicles across a set of charging stations. <i>Simulation Modelling Practice and Theory</i> , <b>2020</b> , 100, 102040	3.9	10
106	Argumentation and explainable artificial intelligence: a survey. <i>Knowledge Engineering Review</i> , <b>2021</b> , 36,	2.1	10
105	On the necessity of multiple university rankings. <i>Collnet Journal of Scientometrics and Information Management</i> , <b>2019</b> , 13, 11-36	0.5	9
104	Bridging the HASM: An OWL ontology for modeling the information pathways in haptic interfaces software. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1358-1371	7.8	9
103	A context-aware web-mapping system for group-targeted offers using semantic technologies. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 4443-4459	7.8	9
102	Ontology-Based Model Driven Engineering for Safety Verification <b>2010</b> ,		9
101	CLIPSDWL: A framework for providing object-oriented extensional ontology queries in a production rule engine. <i>Data and Knowledge Engineering</i> , <b>2011</b> , 70, 661-681	1.5	9
100	E-DEVICE: an extensible active knowledge base system with multiple rule type support. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2000</b> , 12, 824-844	4.2	9
99	Combining a DL Reasoner and a Rule Engine for Improving Entailment-Based OWL Reasoning. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 277-292	0.9	9

98	DISARM: A social distributed agent reputation model based on defeasible logic. <i>Journal of Systems and Software</i> , <b>2016</b> , 117, 130-152	3.3	8
97	Applying adaptive prediction to sea-water quality measurements. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 6773-6779	7.8	8
96	A visual programming system for automated problem solving. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 4611-4625	7.8	8
95	A Defeasible Logic Reasoner for the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 49-64	0.9	8
94	A Multi-agent Coordination Framework for Smart Building Energy Management <b>2014</b> ,		7
93	Semantic Awareness in Automated Web Service Composition through Planning. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 123-132	0.9	7
92	Object-Oriented Similarity Measures for Semantic Web Service Matchmaking <b>2007</b> ,		7
91	A Visual Environment for Developing Defeasible Rule Bases for the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 172-186	0.9	7
90	R-DEVICE: A Deductive RDF Rule Language. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 65-80	0.9	7
89	A Contract Agreement Policy-Based Workflow Methodology for Agents Interacting in the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 225-239	0.9	7
88	Visualizing Defeasible Logic Rules for the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 278-292	0.9	7
87	Cross-community interoperability between knowledge-based multi-agent systems: A study on EMERALD and Rule Responder. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 9571-9587	7.8	6
86	DEIXTo <b>2013</b> ,		6
85	PRACTIC: A concurrent object data model for a parallel object-oriented database system. <i>Information Sciences</i> , <b>1995</b> , 86, 149-178	7.7	6
84	Parallel, Object-Oriented, and Active Knowledge Base Systems <b>1998</b> ,		6
83	Semantically Aware Web Service Composition Through AI Planning. <i>International Journal on Artificial Intelligence Tools</i> , <b>2015</b> , 24, 1450015	0.9	5
82	Providing a context-aware location based web service through semantics and user-defined rules <b>2014</b> ,		5
81	Modeling human daily preferences through a context-aware web-mapping system using semantic technologies. <i>Pervasive and Mobile Computing</i> , <b>2017</b> , 38, 14-40	3.5	5

80	Towards a Knowledge-Based Framework for Agents Interacting in the Semantic Web <b>2009</b> ,		5
79	<b>2008</b> ,		5
78	PASER: a curricula synthesis system based on automated problem solving. <i>International Journal of Teaching and Case Studies</i> , <b>2007</b> , 1, 159	0.5	5
77	Web Service Composition Using a Deductive XML Rule Language. <i>Distributed and Parallel Databases</i> , <b>2005</b> , 17, 135-178	0.9	5
76	Hierarchical query execution in a parallel object-oriented database system. <i>Parallel Computing</i> , <b>1996</b> , 22, 1017-1048	1	5
75	Using Logic for Querying XML Data <b>2003</b> , 1-35		5
74	A System for Automated Agent Negotiation with Defeasible Logic-Based Strategies [Preliminary Report. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 205-213	0.9	5
73	Proof Explanation in the DR-DEVICE System <b>2007</b> , 249-258		5
72	A Trusted Defeasible Reasoning Service for Brokering Agents in the Semantic Web. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 243-248	0.8	5
71	Deploying a Semantically-Enabled Content Management System in a State University. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 257-264	0.9	5
70	A policy-based B2C e-Contract management workflow methodology using semantic web agents. <i>Artificial Intelligence and Law</i> , <b>2016</b> , 24, 93-131	2.2	4
69	Algorithms for Electric Vehicle Scheduling in Mobility-on-Demand Schemes <b>2015</b> ,		4
68	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2003</b> , 15, 1188-1205	4.2	4
67	Agent reasoning on the web using web services?. <i>Computer Science and Information Systems</i> , <b>2014</b> , 11, 697-721	0.8	4
66	ORDAIN: An Ontology for Trust Management in the Internet of Things. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 216-223	0.9	3
65	Guest Editors' Introduction: Rule Representation, Interchange, and Reasoning in Distributed, Heterogeneous Environments. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2010</b> , 22, 1489-1491 <sup>4,2</sup>		3
64	A Collision Detection and Resolution Multi Agent Approach Using Utility Functions <b>2009</b> ,		3
63	Agents and knowledge interoperability in the semantic web era <b>2012</b> ,		3

62	VISUAL MODELING OF DEFEASIBLE LOGIC RULES WITH DR-VisMo. <i>International Journal on Artificial Intelligence Tools</i> , <b>2008</b> , 17, 903-924	0.9	3
61	DR-BROKERING - a defeasible logic-based system for semantic brokering		3
60	System architecture of a distributed expert system for the management of a national data network. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 438-451	0.9	3
59	Mechanism design for efficient allocation of electric vehicles to charging stations <b>2020</b> ,		3
58	Personalizing Location Information through Rule-Based Policies. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 215-223	0.9	3
57	OntoLife: an Ontology for Semantically Managing Personal Information. <i>IFIP Advances in Information and Communication Technology</i> , <b>2009</b> , 127-133	0.5	3
56	A Tool for Transforming Semantic Web Rule Language to SPARQL Inferencing Notation. <i>International Journal on Semantic Web and Information Systems</i> , <b>2020</b> , 16, 87-115	1.4	2
55	Towards Multipolicy Argumentation <b>2018</b> ,		2
54	Semantic Web Service Composition Using Planning and Ontology Concept Relevance <b>2009</b> ,		2
53	Advanced agent discovery services <b>2012</b> ,		2
52	Semantically-enhanced authoring of defeasible logic rule bases in the semantic web <b>2012</b> ,		2
51	DLEJena: A Practical Forward-Chaining OWL 2 RL Reasoner Combining Jena and Pellet. <i>SSRN Electronic Journal</i> ,	1	2
50	A Knowledge-Based Web Information System for the Fusion of Distributed Classifiers <b>2004</b> , 268-304		2
49	Towards Automatic Synthesis of Educational Resources Through Automated Planning. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 421-431	0.9	2
48	Using Rules to Develop a Personalized and Social Location Information System for the Semantic Web. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 82-96	0.9	2
47	Collecting University Rankings for Comparison Using Web Extraction and Entity Linking Techniques. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 23-46	0.3	2
46	A Synergy of Planning and Ontology Concept Ranking for Semantic Web Service Composition. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 42-51	0.9	2
45	Rule Representation, Interchange and Reasoning on the Web. <i>Lecture Notes in Computer Science</i> , <b>2008</b> ,	0.9	2

44	Visualization of Proofs in Defeasible Logic. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 197-210	0.9	2
43	T-REX: A Hybrid Agent Trust Model Based on Witness Reputation and Personal Experience. <i>Lecture Notes in Business Information Processing</i> , <b>2010</b> , 107-118	0.6	2
42	Rule-Based Reasoning, Programming, and Applications. <i>Lecture Notes in Computer Science</i> , <b>2011</b> ,	0.9	2
41	SWRL2COOL: Object-Oriented Transformation of SWRL in the CLIPS Production Rule Engine. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 49-56	0.9	2
40	Knowledge-Based e-Contract Negotiation among Agents Using Semantic Web Technologies. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 215-224	0.9	2
39	A Rule-Based eCommerce Methodology for the IoT Using Trustworthy Intelligent Agents and Microservices. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 302-309	0.9	2
38	Doc2KG. <i>International Journal on Semantic Web and Information Systems</i> , <b>2022</b> , 18, 1-20	1.4	2
37	Towards Online Electric Vehicle Scheduling for Mobility-On-Demand Schemes. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 94-108	0.9	1
36	EVLlib <b>2016</b> ,		1
35	Web Service Composition Plans in OWL-S. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 240-254	0.3	1
34	Choreographing agent encounters in the Semantic Web using rules. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2014</b> , 27, 625-640	1.6	1
33	Enabling agent reasoning over the web <b>2013</b> ,		1
32	Detecting Antipatterns Using a Web-Based Collaborative Antipattern Ontology Knowledge Base. <i>Lecture Notes in Business Information Processing</i> , <b>2011</b> , 478-488	0.6	1
31	Visual Stratification of Defeasible Logic Rule Bases <b>2007</b> ,		1
30	CONSTRAINT CHECKING IN A PARALLEL OBJECT-ORIENTED DATABASE SYSTEM. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>1995</b> , 5, 129-147		1
29	Towards a Requirements Engineering Framework based on Semantics <b>2020</b> ,		1
28	Intelligent momentary assisted control for autonomous emergency braking. <i>Simulation Modelling Practice and Theory</i> , <b>2022</b> , 115, 102450	3.9	1
27	Graphical Representation of Defeasible Logic Rules Using Digraphs. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 529-533	0.9	1



26	O-DEVICE: An Object-Oriented Knowledge Base System for OWL Ontologies. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 256-266	0.9	1
25	Cooperative CG-Wrappers for Web Content Extraction. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 476-479	0.9	1
24	Extending a Multi-agent Reasoning Interoperability Framework with Services for the Semantic Web Logic and Proof Layers. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 29-43	0.9	1
23	Cross-Community Interoperation between the EMERALD and Rule Responder Multi-Agent Systems. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 44-51	0.9	1
22	HARM: A Hybrid Rule-Based Agent Reputation Model Based on Temporal Defeasible Logic. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 193-207	0.9	1
21	A Rule Based Personalized Location Information System for the Semantic Web. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 27-38	0.6	1
20	Monitoring Conformance to the Internal Regulation of an MSc Course Using Ontologies and Rules. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 212-226	0.9	1
19	An Ontological Business Process Modeling Approach for Public Administration		1
18	Building a Logic for a Public Administration Service Transformation Algorithm. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 73-79	0.3	1
17	Towards an Agent-Based Negotiation Scheme for Scheduling Electric Vehicles Charging. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 157-171	0.9	1
16	Intelligent Querying of Web Documents Using a Deductive XML Repository. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 437-448	0.9	1
15	Mechanism Design for Efficient Offline and Online Allocation of Electric Vehicles to Charging Stations. <i>Energies</i> , <b>2022</b> , 15, 1660	3.1	1
14	Conclusive local interpretation rules for random forests. <i>Data Mining and Knowledge Discovery</i> ,	5.6	1
13	Visualizing RDF Documents. <i>IFIP Advances in Information and Communication Technology</i> , <b>2009</b> , 151-156	0.5	0
12	Towards Linking DBpedia Bibliographic References to Bibliographic Repositories. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 120-129	0.9	
11	Sboing4Real: A real-time crowdsensing-based traffic management system. <i>Journal of Parallel and Distributed Computing</i> , <b>2022</b> , 162, 59-75	4.4	
10	An Ontological Business Process Modeling Approach for Public Administration	535-563	
9	SENSE: A Flow-Down Semantics-Based Requirements Engineering Framework. <i>Algorithms</i> , <b>2021</b> , 14, 298	1.8	

- 8 Using the k-Nearest Problems for Adaptive Multicriteria Planning. *Lecture Notes in Computer Science*, **2004**, 132-141 0.9
- 7 A Deductive Semantic Brokering System. *Lecture Notes in Computer Science*, **2005**, 746-752 0.9
- 6 A Graphical Rule Authoring Tool for Defeasible Reasoning in the Semantic Web. *Lecture Notes in Computer Science*, **2005**, 404-414 0.9
- 5 A Visualization Algorithm for Defeasible Logic Rule Bases over RDF Data. *Lecture Notes in Computer Science*, **2007**, 367-369 0.9
- 4 Paving the Way for a Transformational Public Administration. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2012**, 194-203 0.2
- 3 A Modal Defeasible Reasoner of Deontic Logic for the Semantic Web **2013**, 140-167
- 2 Using RuleML for Representing and Prolog for Simulating Fuzzy Cognitive Maps. *Intelligent Systems Reference Library*, **2014**, 65-87 0.8
- 1 Visual Development of Defeasible Logic Rules for the Semantic Web 273-301