Jesualdo TomÃ¡s FernÃ¡ndez-Breis

List of Publications by Year
in descending order

106 papers	1,720 citations	257101 24 h-index	329751 37 g-index
113 all docs	113 docs citations	113 times ranked	1552 citing authors

#	Article	IF	Citations
1	An ontology, intelligent agent-based framework for the provision of semantic web services. Expert Systems With Applications, 2009, 36, 3167-3187.	4.4	86
2	An approach for the semantic interoperability of ISO EN 13606 and OpenEHR archetypes. Journal of Biomedical Informatics, 2010, 43, 736-746.	2.5	75
3	An application of intelligent techniques and semantic web technologies in e-learning environments. Expert Systems With Applications, 2009, 36, 1922-1931.	4.4	74
4	An ontology-based intelligent system for recruitment. Expert Systems With Applications, 2006, 31, 248-263.	4.4	71
5	LinkEHR-Ed: A multi-reference model archetype editor based on formal semantics. International Journal of Medical Informatics, 2009, 78, 559-570.	1.6	63
6	A model-driven approach for representing clinical archetypes for Semantic Web environments. Journal of Biomedical Informatics, 2009, 42, 150-164.	2.5	63
7	Semantic Web Technologies for supporting learning assessment. Information Sciences, 2011, 181, 1517-1537.	4.0	57
8	Clinical data interoperability based on archetype transformation. Journal of Biomedical Informatics, 2011, 44, 869-880.	2.5	53
9	Financial news semantic search engine. Expert Systems With Applications, 2011, 38, 15565-15572.	4.4	49
10	OWLPath: An OWL Ontology-Guided Query Editor. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 121-136.	3.4	46
11	Combining Semantic Web technologies with Multi-Agent Systems for integrated access to biological resources. Journal of Biomedical Informatics, 2008, 41, 848-859.	2.5	45
12	Evaluation of the OQuaRE framework for ontology quality. Expert Systems With Applications, 2013, 40, 2696-2703.	4.4	45
13	Leveraging electronic healthcare record standards and semantic web technologies for the identification of patient cohorts. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, e288-e296.	2.2	43
14	A cooperative framework for integrating ontologies. International Journal of Human Computer Studies, 2002, 56, 665-720.	3.7	42
15	A semantic web based framework for the interoperability and exploitation of clinical models and EHR data. Knowledge-Based Systems, 2016, 105, 175-189.	4.0	40
16	Ontology learning from biomedical natural language documents using UMLS. Expert Systems With Applications, 2011, 38, 12365-12378.	4.4	38
17	Gearing up to handle the mosaic nature of life in the quest for orthologs. Bioinformatics, 2018, 34, 323-329.	1.8	36
18	A knowledge acquisition methodology to ontology construction for information retrieval from medical documents. Expert Systems, 2008, 25, 314-334.	2.9	35

#	Article	IF	Citations
19	COOPERATIVE MODELLING EVALUATED. International Journal of Cooperative Information Systems, 2005, 14, 45-71.	0.6	33
20	Using the ResearchEHR platform to facilitate the practical application of the EHR standards. Journal of Biomedical Informatics, 2012, 45, 746-762.	2.5	32
21	An incremental approach for discovering medical knowledge from texts. Expert Systems With Applications, 2004, 26, 291-299.	4.4	30
22	Measuring individual learning performance in group work from a knowledge integration perspective. Information Sciences, 2009, 179, 339-354.	4.0	29
23	An approach for incremental knowledge acquisition from text. Expert Systems With Applications, 2003, 25, 77-86.	4.4	27
24	Semantic Web technologies for generating feedback in online assessment environments. Knowledge-Based Systems, 2012, 33, 152-165.	4.0	26
25	Quorum sensing and stress-activated MAPK signaling repress yeast to hypha transition in the fission yeast Schizosaccharomyces japonicus. PLoS Genetics, 2019, 15, e1008192.	1.5	26
26	Evaluating the Good Ontology Design Guideline (GoodOD) with the Ontology Quality Requirements and Evaluation Method and Metrics (OQuaRE). PLoS ONE, 2014, 9, e104463.	1.1	25
27	Generation of open biomedical datasets through ontology-driven transformation and integration processes. Journal of Biomedical Semantics, 2016, 7, 32.	0.9	24
28	A cooperative tool for facilitating knowledge management. Expert Systems With Applications, 2000, 18, 315-330.	4.4	23
29	The Orthology Ontology: development and applications. Journal of Biomedical Semantics, 2016, 7, 34.	0.9	21
30	A knowledge-based approach to assign breast cancer treatments in oncology units. Expert Systems With Applications, 2006, 31, 451-457.	4.4	19
31	OWL-based reasoning methods for validating archetypes. Journal of Biomedical Informatics, 2013, 46, 304-317.	2.5	19
32	Transformation of standardized clinical models based on OWL technologies: from CEM to OpenEHR archetypes. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 536-544.	2.2	18
33	A semantic platform for the management of the educative curriculum. Expert Systems With Applications, 2012, 39, 6011-6019.	4.4	16
34	An ontological framework for representing and exploiting medical knowledge. Expert Systems With Applications, 2003, 25, 211-230.	4.4	15
35	OGO: an ontological approach for integrating knowledge about orthology. BMC Bioinformatics, 2009, 10, S13.	1.2	15
36	Analysis and visualization of disease courses in a semantically-enabled cancer registry. Journal of Biomedical Semantics, 2017, 8, 46.	0.9	15

#	Article	IF	Citations
37	Accessing Touristic Knowledge Bases through a Natural Language Interface. Lecture Notes in Computer Science, 2009, , 147-160.	1.0	14
38	Enriching the Gene Ontology via the Dissection of Labels Using the Ontology Pre-processor Language. Lecture Notes in Computer Science, 2010, , 59-73.	1.0	14
39	SocialBROKER: A collaborative social space for gathering semantically-enhanced financial information. Expert Systems With Applications, 2012, 39, 9715-9722.	4.4	12
40	Informal learning through expertise mining in the social web. Behaviour and Information Technology, 2012, 31, 757-766.	2.5	11
41	From lexical regularities to axiomatic patterns for the quality assurance of biomedical terminologies and ontologies. Journal of Biomedical Informatics, 2018, 84, 59-74.	2.5	11
42	CLIN-IK-LINKS: A platform for the design and execution of clinical data transformation and reasoning workflows. Computer Methods and Programs in Biomedicine, 2020, 197, 105616.	2.6	11
43	A semantic web-based system for managing clinical archetypes. , 2008, 2008, 1482-5.		10
44	Exploitation of social semantic technology for software development team configuration. IET Software, 2010, 4, 373.	1.5	10
45	Approaching the axiomatic enrichment of the Gene Ontology from a lexical perspective. Artificial Intelligence in Medicine, 2015, 65, 35-48.	3.8	9
46	ColPortal, an integrative multiomic platform for analysing epigenetic interactions in colorectal cancer. Scientific Data, 2019, 6, 255.	2.4	9
47	A Methodology for Extracting Ontological Knowledge from Spanish Documents. Lecture Notes in Computer Science, 2006, , 71-80.	1.0	9
48	TecnologÃas semÃ¡nticas para la evaluaciÃ³n en red: anÃ¡lisis de una experiencia con la herramienta OeLE. Revista De Investigacion Educativa, 2013, 31, .	0.4	8
49	Supporting the analysis of ontology evolution processes through the combination of static and dynamic scaling functions in OQuaRE. Journal of Biomedical Semantics, 2016, 7, 63.	0.9	8
50	Evaluation of ontology structural metrics based on public repository data. Briefings in Bioinformatics, 2020, 21, 473-485.	3.2	8
51	Using semantic technologies to promote interoperability between electronic healthcare records' information models. , 2006, 2006, 2614-7.		7
52	Semantic enrichment of SCORM metadata for efficient management of educative contents. Procedia, Social and Behavioral Sciences, 2009, 1, 927-932.	0.5	7
53	An extension of the OeLE platform for generating semantic feedback for students and teachers. Procedia, Social and Behavioral Sciences, 2010, 2, 527-531.	0.5	7
54	Lexical Characterization and Analysis of the BioPortal Ontologies. Lecture Notes in Computer Science, 2013, , 206-215.	1.0	7

#	Article	IF	Citations
55	Special issue on Linked Data for Health Care and the Life Sciences. Semantic Web, 2014, 5, 99-100.	1.1	7
56	Semantic Publication of Agricultural Scientific Literature Using Property Graphs. Applied Sciences (Switzerland), 2020, 10, 861.	1.3	7
57	Towards Cooperative Frameworks for Modeling and Integrating Biological Processes Knowledge. IEEE Transactions on Nanobioscience, 2004, 3, 164-171.	2.2	6
58	Semantic integration of information about orthologs and diseases: The OGO system. Journal of Biomedical Informatics, 2011, 44, 1020-1031.	2.5	6
59	Lost in translation: bioinformatic analysis of variations affecting the translation initiation codon in the human genome. Bioinformatics, 2018, 34, 3788-3794.	1.8	6
60	Efficient, semantics-rich transformation and integration of large datasets. Expert Systems With Applications, 2019, 133, 198-214.	4.4	6
61	Formalization of gene regulation knowledge using ontologies and gene ontology causal activity models. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2021, 1864, 194766.	0.9	6
62	Suggesting Missing Relations in Biomedical Ontologies Based on Lexical Regularities. Studies in Health Technology and Informatics, 2016, 228, 384-8.	0.2	6
63	An incremental knowledge acquisition-based system for supporting decisions in biomedical domains. Computer Methods and Programs in Biomedicine, 2010, 98, 161-171.	2.6	5
64	OPPL-Galaxy, a Galaxy tool for enhancing ontology exploitation as part of bioinformatics workflows. Journal of Biomedical Semantics, 2013, 4, 2.	0.9	5
65	Translational research combining orthologous genes and human diseases with the OGOLOD dataset. Semantic Web, 2014, 5, 145-149.	1.1	5
66	Ontology-based infrastructure for a meaningful EHR representation and use. , 2014, , .		5
67	Snomed2Vec: Representation of SNOMED CT Terms with Word2Vec. , 2019, , .		5
68	Extraction and analysis of the structure of labels in biomedical ontologies. , 2012, , .		4
69	Prioritising Lexical Patterns to Increase Axiomatisation in Biomedical Ontologies. Methods of Information in Medicine, 2015, 54, 56-64.	0.7	4
70	Semankey: A Semantics-Driven Approach for Querying RDF Repositories Using Keywords. IEEE Access, 2021, 9, 91282-91302.	2.6	4
71	A Semantic Query Interface for the OGO Platform. Lecture Notes in Computer Science, 2010, , 128-142.	1.0	4
72	An Approach for Ontology Building from Text Supported by NLP Techniques. Lecture Notes in Computer Science, 2004, , 126-135.	1.0	3

#	Article	IF	Citations
73	Semantic Web-based system for managing the educative curriculum. Procedia, Social and Behavioral Sciences, 2010, 2, 521-526.	0.5	3
74	Publishing Orthology and Diseases Information in the Linked Open Data Cloud. Current Bioinformatics, 2012, 7, 255-266.	0.7	3
75	A Generative Tool for Building Health Applications Driven by ISO 13606 Archetypes. Journal of Medical Systems, 2012, 36, 3063-3075.	2.2	3
76	Validation of the openEHR archetype library by using OWL reasoning. Studies in Health Technology and Informatics, 2011, 169, 789-93.	0.2	3
77	An incremental knowledge acquisition-based system for critical domains. Expert Systems With Applications, 2010, 37, 2838-2847.	4.4	2
78	Analysis of readability and structural accuracy in SNOMED CT. BMC Medical Informatics and Decision Making, 2020, 20, 284.	1.5	2
79	A Quality Assurance Workflow for Ontologies Based on Semantic Regularities. Lecture Notes in Computer Science, 2014, , 288-303.	1.0	2
80	Using Semantic Web Technologies for the Assessment of Open Questions. Lecture Notes in Computer Science, 2008, , 42-53.	1.0	2
81	A platform for exploration into chaining of web services for clinical data transformation and reasoning. AMIA ... Annual Symposium proceedings, 2016, 2016, 854-863.	0.2	2
82	Lessons learned in the generation of biomedical research datasets using Semantic Open Data technologies. Studies in Health Technology and Informatics, 2015, 210, 165-9.	0.2	2
83	Analysing the Protein-DNA Binding Sites in Arabidopsis thaliana from ChIP-seq Experiments. Mathematics, 2021, 9, 3239.	1.1	2
84	OPPL-Galaxy. , 2012, , .		1
85	Linking Genome Annotation Projects with Genetic Disorders using Ontologies. Journal of Medical Systems, 2012, 36, 11-23.	2.2	1
86	Recommendation of Personalized Learning Contents Supported by Semantic Web Technologies. Communications in Computer and Information Science, 2013, , 540-545.	0.4	1
87	Deciphering Gene Sets Annotations with Ontology Based Visualization. , 2017, , .		1
88	An Automated Process for the Repository-Based Analysis of Ontology Structural Metrics. IEEE Access, 2020, 8, 148722-148743.	2.6	1
89	Towards Distributed Learning in Internet of Things. Air Quality Monitoring Use Case. Communications in Computer and Information Science, 2019, , 154-159.	0.4	1
90	Can Existing Biomedical Ontologies Be More Useful for EHR and CDS?. Lecture Notes in Computer Science, 2017, , 3-20.	1.0	1

#	Article	IF	Citations
91	Exploitation of Translational Bioinformatics for Decision-Making on Cancer Treatments. Lecture Notes in Computer Science, 2011, , 1-15.	1.0	1
92	Interoperability of EHR Systems Based on Semantic Representation and Transformation Models. Advances in Healthcare Information Systems and Administration Book Series, 2013, , 59-81.	0.2	1
93	Lexical Characterisation of Bio-Ontologies by the Inspection of Regularities in Labels. Current Bioinformatics, 2015, 10, 165-176.	0.7	1
94	Knowledge Technologies-Based Multi-Agent System for Semantic Web Services Environments. Lecture Notes in Computer Science, 2008, , 1222-1233.	1.0	1
95	Preliminary Analysis of the OBO Foundry Ontologies and Their Evolution Using OQuaRE. Studies in Health Technology and Informatics, 2017, 235, 426-430.	0.2	1
96	Towards Adaptable Semantic Grid Services Execution Environments. , 2009, , .		0
97	Retrieval and integration of audiovisual contents for TV using Semantic Web technologies. , 2010, , .		0
98	Using ontologies for supporting genomic sequence annotation projects. , 2011, , .		0
99	Angel: Towards a Multi-level Method for the Analysis of Variants in Individual Genomes. Lecture Notes in Computer Science, 2016, , 47-58.	1.0	0
100	Application of High Performance Computing Techniques to the Semantic Data Transformation. Advances in Intelligent Systems and Computing, 2018, , 691-700.	0.5	0
101	Visual Knowledge Annotation and Management by Using Qualitative Spatial Information. Lecture Notes in Computer Science, 2006, , 1-12.	1.0	0
102	Flexible Semantic Querying of Clinical Archetypes. Lecture Notes in Computer Science, 2010, , 597-606.	1.0	0
103	Ontology-Driven Method for Integrating Biomedical Repositories. Lecture Notes in Computer Science, 2011, , 473-482.	1.0	0
104	DiseÃ±o y desarrollo de exÃ¡menes a travÃ©s de herramientas de web semÃ¡ntica. @tic: Revista D'InnovaciÃ³ Educativa, 2011, .	0.3	0
105	A Social-Empowered Platform for Gathering Semantic Information. Communications in Computer and Information Science, 2013, , 534-539.	0.4	0
106	Studying the Reuse of Content in Biomedical Ontologies: An Axiom-Based Approach. Lecture Notes in Computer Science, 2017, , 3-13.	1.0	0