Jesualdo TomÃ¡s FernÃ¡ndez-Breis

List of Publications by Year
in descending order

106	1,720	257101	329751
papers	citations	24	37
		h-index	g-index

113	113	113	1552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Semankey: A Semantics-Driven Approach for Querying RDF Repositories Using Keywords. IEEE Access, 2021, 9, 91282-91302.	2.6	4
2	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
3	Analysing the Protein-DNA Binding Sites in Arabidopsis thaliana from ChIP-seq Experiments. Mathematics, 2021, 9, 3239.	1.1	2
4	Evaluation of ontology structural metrics based on public repository data. Briefings in Bioinformatics, 2020, 21, 473-485.	3.2	8
5	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
6	An Automated Process for the Repository-Based Analysis of Ontology Structural Metrics. IEEE Access, 2020, 8, 148722-148743.	2.6	1
7	Analysis of readability and structural accuracy in SNOMED CT. BMC Medical Informatics and Decision Making, 2020, 20, 284.	1.5	2
8	Semantic Publication of Agricultural Scientific Literature Using Property Graphs. Applied Sciences (Switzerland), 2020, 10, 861.	1.3	7
9	ColPortal, an integrative multiomic platform for analysing epigenetic interactions in colorectal cancer. Scientific Data, 2019, 6, 255.	2.4	9
10	Snomed2Vec: Representation of SNOMED CT Terms with Word2Vec. , 2019, , .		5
11	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
12	Efficient, semantics-rich transformation and integration of large datasets. Expert Systems With Applications, 2019, 133, 198-214.	4.4	6
13	Towards Distributed Learning in Internet of Things. Air Quality Monitoring Use Case. Communications in Computer and Information Science, 2019, , 154-159.	0.4	1
14	Gearing up to handle the mosaic nature of life in the quest for orthologs. Bioinformatics, 2018, 34, 323-329.	1.8	36
15	Lost in translation: bioinformatic analysis of variations affecting the translation initiation codon in the human genome. Bioinformatics, 2018, 34, 3788-3794.	1.8	6
16	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
17	Application of High Performance Computing Techniques to the Semantic Data Transformation. Advances in Intelligent Systems and Computing, 2018, , 691-700.	0.5	0
18	Analysis and visualization of disease courses in a semantically-enabled cancer registry. Journal of Biomedical Semantics, 2017, 8, 46.	0.9	15

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19	Deciphering Gene Sets Annotations with Ontology Based Visualization. , 2017, , .		1
20	Can Existing Biomedical Ontologies Be More Useful for EHR and CDS?. Lecture Notes in Computer Science, 2017, , 3-20.	1.0	1
21	Studying the Reuse of Content in Biomedical Ontologies: An Axiom-Based Approach. Lecture Notes in Computer Science, 2017, , 3-13.	1.0	0
22	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
23	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
24	Generation of open biomedical datasets through ontology-driven transformation and integration processes. Journal of Biomedical Semantics, 2016, 7, 32.	0.9	24
25	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
26	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
27	The Orthology Ontology: development and applications. Journal of Biomedical Semantics, 2016, 7, 34.	0.9	21
28	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
29	Suggesting Missing Relations in Biomedical Ontologies Based on Lexical Regularities. Studies in Health Technology and Informatics, 2016, 228, 384-8.	0.2	6
30	Prioritising Lexical Patterns to Increase Axiomatisation in Biomedical Ontologies. Methods of Information in Medicine, 2015, 54, 56-64.	0.7	4
31	Approaching the axiomatic enrichment of the Gene Ontology from a lexical perspective. Artificial Intelligence in Medicine, 2015, 65, 35-48.	3.8	9
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	Lexical Characterisation of Bio-Ontologies by the Inspection of Regularities in Labels. Current Bioinformatics, 2015, 10, 165-176.	0.7	1
34	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
35	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
36	Special issue on Linked Data for Health Care and the Life Sciences. Semantic Web, 2014, 5, 99-100.	1.1	7

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37	Translational research combining orthologous genes and human diseases with the OGOLOD dataset. Semantic Web, 2014, 5, 145-149.	1.1	5
38	Ontology-based infrastructure for a meaningful EHR representation and use. , 2014, , .		5
39	A Quality Assurance Workflow for Ontologies Based on Semantic Regularities. Lecture Notes in Computer Science, 2014, , 288-303.	1.0	2
40	OPPL-Galaxy, a Galaxy tool for enhancing ontology exploitation as part of bioinformatics workflows. Journal of Biomedical Semantics, 2013, 4, 2.	0.9	5
41	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
42	OWL-based reasoning methods for validating archetypes. Journal of Biomedical Informatics, 2013, 46, 304-317.	2.5	19
43	Recommendation of Personalized Learning Contents Supported by Semantic Web Technologies. Communications in Computer and Information Science, 2013, , 540-545.	0.4	1
44	Evaluation of the OQuaRE framework for ontology quality. Expert Systems With Applications, 2013, 40, 2696-2703.	4.4	45
45	Lexical Characterization and Analysis of the BioPortal Ontologies. Lecture Notes in Computer Science, 2013, , 206-215.	1.0	7
46	Tecnologías semánticas para la evaluación en red: análisis de una experiencia con la herramienta OeLE. Revista De Investigacion Educativa, 2013, 31, .	0.4	8
47	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
48	A Social-Empowered Platform for Gathering Semantic Information. Communications in Computer and Information Science, 2013, , 534-539.	0.4	0
49	Extraction and analysis of the structure of labels in biomedical ontologies. , 2012, , .		4
50	Informal learning through expertise mining in the social web. Behaviour and Information Technology, 2012, 31, 757-766.	2.5	11
51	Publishing Orthology and Diseases Information in the Linked Open Data Cloud. Current Bioinformatics, 2012, 7, 255-266.	0.7	3
52	OPPL-Galaxy. , 2012, , .		1
53	A Generative Tool for Building Health Applications Driven by ISO 13606 Archetypes. Journal of Medical Systems, 2012, 36, 3063-3075.	2.2	3
54	Using the ResearchEHR platform to facilitate the practical application of the EHR standards. Journal of Biomedical Informatics, 2012, 45, 746-762.	2.5	32

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55	Semantic Web technologies for generating feedback in online assessment environments. Knowledge-Based Systems, 2012, 33, 152-165.	4.0	26
56	Linking Genome Annotation Projects with Genetic Disorders using Ontologies. Journal of Medical Systems, 2012, 36, 11-23.	2.2	1
57	A semantic platform for the management of the educative curriculum. Expert Systems With Applications, 2012, 39, 6011-6019.	4.4	16
58	SocialBROKER: A collaborative social space for gathering semantically-enhanced financial information. Expert Systems With Applications, 2012, 39, 9715-9722.	4.4	12
59	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
60	Clinical data interoperability based on archetype transformation. Journal of Biomedical Informatics, 2011, 44, 869-880.	2.5	53
61	Semantic integration of information about orthologs and diseases: The OGO system. Journal of Biomedical Informatics, 2011, 44, 1020-1031.	2.5	6
62	Financial news semantic search engine. Expert Systems With Applications, 2011, 38, 15565-15572.	4.4	49
63	Semantic Web Technologies for supporting learning assessment. Information Sciences, 2011, 181, 1517-1537.	4.0	57
64	Ontology learning from biomedical natural language documents using UMLS. Expert Systems With Applications, 2011, 38, 12365-12378.	4.4	38
65	Using ontologies for supporting genomic sequence annotation projects. , 2011, , .		0
66	Exploitation of Translational Bioinformatics for Decision-Making on Cancer Treatments. Lecture Notes in Computer Science, 2011, , 1-15.	1.0	1
67	Ontology-Driven Method for Integrating Biomedical Repositories. Lecture Notes in Computer Science, 2011, , 473-482.	1.0	0
68	Diseño y desarrollo de exámenes a través de herramientas de web semántica. @tic: Revista D'InnovaciÃ³ Educativa, 2011, .	0.3	0
69	Validation of the openEHR archetype library by using OWL reasoning. Studies in Health Technology and Informatics, 2011, 169, 789-93.	0.2	3
70	Exploitation of social semantic technology for software development team configuration. IET Software, 2010, 4, 373.	1.5	10
71	Semantic Web-based system for managing the educative curriculum. Procedia, Social and Behavioral Sciences, 2010, 2, 521-526.	0.5	3
72	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

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73	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
74	An approach for the semantic interoperability of ISO EN 13606 and OpenEHR archetypes. Journal of Biomedical Informatics, 2010, 43, 736-746.	2.5	75
75	An incremental knowledge acquisition-based system for critical domains. Expert Systems With Applications, 2010, 37, 2838-2847.	4.4	2
76	Retrieval and integration of audiovisual contents for TV using Semantic Web technologies. , 2010, , .		0
77	A Semantic Query Interface for the OGO Platform. Lecture Notes in Computer Science, 2010, , 128-142.	1.0	4
78	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
79	Flexible Semantic Querying of Clinical Archetypes. Lecture Notes in Computer Science, 2010, , 597-606.	1.0	0
80	Semantic enrichment of SCORM metadata for efficient management of educative contents. Procedia, Social and Behavioral Sciences, 2009, 1, 927-932.	0.5	7
81	OGO: an ontological approach for integrating knowledge about orthology. BMC Bioinformatics, 2009, 10, S13.	1.2	15
82	LinkEHR-Ed: A multi-reference model archetype editor based on formal semantics. International Journal of Medical Informatics, 2009, 78, 559-570.	1.6	63
83	A model-driven approach for representing clinical archetypes for Semantic Web environments. Journal of Biomedical Informatics, 2009, 42, 150-164.	2.5	63
84	An application of intelligent techniques and semantic web technologies in e-learning environments. Expert Systems With Applications, 2009, 36, 1922-1931.	4.4	74
85	An ontology, intelligent agent-based framework for the provision of semantic web services. Expert Systems With Applications, 2009, 36, 3167-3187.	4.4	86
86	Measuring individual learning performance in group work from a knowledge integration perspective. Information Sciences, 2009, 179, 339-354.	4.0	29
87	Towards Adaptable Semantic Grid Services Execution Environments. , 2009, , .		0
88	Accessing Touristic Knowledge Bases through a Natural Language Interface. Lecture Notes in Computer Science, 2009, , 147-160.	1.0	14
89	A knowledge acquisition methodology to ontology construction for information retrieval from medical documents. Expert Systems, 2008, 25, 314-334.	2.9	35
90	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

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91	A semantic web-based system for managing clinical archetypes. , 2008, 2008, 1482-5.		10
92	Using Semantic Web Technologies for the Assessment of Open Questions. Lecture Notes in Computer Science, 2008, , 42-53.	1.0	2
93	Knowledge Technologies-Based Multi-Agent System for Semantic Web Services Environments. Lecture Notes in Computer Science, 2008, , 1222-1233.	1.0	1
94	Using semantic technologies to promote interoperability between electronic healthcare records' information models. , 2006, 2006, 2614-7.		7
95	An ontology-based intelligent system for recruitment. Expert Systems With Applications, 2006, 31, 248-263.	4.4	71
96	A knowledge-based approach to assign breast cancer treatments in oncology units. Expert Systems With Applications, 2006, 31, 451-457.	4.4	19
97	A Methodology for Extracting Ontological Knowledge from Spanish Documents. Lecture Notes in Computer Science, 2006, , 71-80.	1.0	9
98	Visual Knowledge Annotation and Management by Using Qualitative Spatial Information. Lecture Notes in Computer Science, 2006, , 1-12.	1.0	0
99	COOPERATIVE MODELLING EVALUATED. International Journal of Cooperative Information Systems, 2005, 14, 45-71.	0.6	33
100	An Approach for Ontology Building from Text Supported by NLP Techniques. Lecture Notes in Computer Science, 2004, , 126-135.	1.0	3
101	An incremental approach for discovering medical knowledge from texts. Expert Systems With Applications, 2004, 26, 291-299.	4.4	30
102	Towards Cooperative Frameworks for Modeling and Integrating Biological Processes Knowledge. IEEE Transactions on Nanobioscience, 2004, 3, 164-171.	2.2	6
103	An approach for incremental knowledge acquisition from text. Expert Systems With Applications, 2003, 25, 77-86.	4.4	27
104	An ontological framework for representing and exploiting medical knowledge. Expert Systems With Applications, 2003, 25, 211-230.	4.4	15
105	A cooperative framework for integrating ontologies. International Journal of Human Computer Studies, 2002, 56, 665-720.	3.7	42
106	A cooperative tool for facilitating knowledge management. Expert Systems With Applications, 2000, 18, 315-330.	4.4	23