

# Jesualdo Toms Fernandez-Breis

## List of Publications by Year in Descending Order

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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.

103  
papers

1,277  
citations

22  
h-index

32  
g-index

113  
ext. papers

1,489  
ext. citations

4.2  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
103	Formalization of gene regulation knowledge using ontologies and gene ontology causal activity models. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2021</b> , 1864, 194766	6	3
102	Semankey: A Semantics-Driven Approach for Querying RDF Repositories Using Keywords. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	0
101	Analysing the Protein-DNA Binding Sites in Arabidopsis thaliana from ChIP-seq Experiments. <i>Mathematics</i> , <b>2021</b> , 9, 3239	2.3	
100	Semantic Publication of Agricultural Scientific Literature Using Property Graphs. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 861	2.6	5
99	Discovering the Most Characteristic Motif from a Set of Peak Sequences. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 445-456	0.9	
98	CLIN-IK-LINKS: A platform for the design and execution of clinical data transformation and reasoning workflows. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 197, 105616	6.9	6
97	An Automated Process for the Repository-Based Analysis of Ontology Structural Metrics. <i>IEEE Access</i> , <b>2020</b> , 8, 148722-148743	3.5	
96	Analysis of readability and structural accuracy in SNOMED CT. <i>BMC Medical Informatics and Decision Making</i> , <b>2020</b> , 20, 284	3.6	1
95	Evaluation of ontology structural metrics based on public repository data. <i>Briefings in Bioinformatics</i> , <b>2020</b> , 21, 473-485	13.4	4
94	Snomed2Vec: Representation of SNOMED CT Terms with Word2Vec <b>2019</b> ,		3
93	Quorum sensing and stress-activated MAPK signaling repress yeast to hypha transition in the fission yeast <i>Schizosaccharomyces japonicus</i> . <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008192	6	9
92	Efficient, semantics-rich transformation and integration of large datasets. <i>Expert Systems With Applications</i> , <b>2019</b> , 133, 198-214	7.8	4
91	ColPortal, an integrative multiomic platform for analysing epigenetic interactions in colorectal cancer. <i>Scientific Data</i> , <b>2019</b> , 6, 255	8.2	4
90	Towards Distributed Learning in Internet of Things. Air Quality Monitoring Use Case. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 154-159	0.3	1
89	Application of High Performance Computing Techniques to the Semantic Data Transformation. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 691-700	0.4	
88	Gearing up to handle the mosaic nature of life in the quest for orthologs. <i>Bioinformatics</i> , <b>2018</b> , 34, 323-329		25
87	Lost in translation: bioinformatic analysis of variations affecting the translation initiation codon in the human genome. <i>Bioinformatics</i> , <b>2018</b> , 34, 3788-3794	7.2	0

86	From lexical regularities to axiomatic patterns for the quality assurance of biomedical terminologies and ontologies. <i>Journal of Biomedical Informatics</i> , <b>2018</b> , 84, 59-74	10.2	3
85	Analysis and visualization of disease courses in a semantically-enabled cancer registry. <i>Journal of Biomedical Semantics</i> , <b>2017</b> , 8, 46	2.2	9
84	Can Existing Biomedical Ontologies Be More Useful for EHR and CDS?. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 3-20	0.9	1
83	Studying the Reuse of Content in Biomedical Ontologies: An Axiom-Based Approach. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 3-13	0.9	
82	Preliminary Analysis of the OBO Foundry Ontologies and Their Evolution Using OQuaRE. <i>Studies in Health Technology and Informatics</i> , <b>2017</b> , 235, 426-430	0.5	1
81	Generation of open biomedical datasets through ontology-driven transformation and integration processes. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 32	2.2	15
80	Supporting the analysis of ontology evolution processes through the combination of static and dynamic scaling functions in OQuaRE. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 63	2.2	5
79	A semantic web based framework for the interoperability and exploitation of clinical models and EHR data. <i>Knowledge-Based Systems</i> , <b>2016</b> , 105, 175-189	7.3	30
78	The Orthology Ontology: development and applications. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 34	2.2	17
77	A platform for exploration into chaining of web services for clinical data transformation and reasoning <b>2016</b> , 2016, 854-863	0.7	2
76	Angel: Towards a Multi-level Method for the Analysis of Variants in Individual Genomes. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 47-58	0.9	
75	Suggesting Missing Relations in Biomedical Ontologies Based on Lexical Regularities. <i>Studies in Health Technology and Informatics</i> , <b>2016</b> , 228, 384-8	0.5	5
74	Transformation of standardized clinical models based on OWL technologies: from CEM to OpenEHR archetypes. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2015</b> , 22, 536-44	8.6	13
73	Prioritising lexical patterns to increase axiomatisation in biomedical ontologies. The role of localisation and modularity. <i>Methods of Information in Medicine</i> , <b>2015</b> , 54, 56-64	1.5	3
72	Approaching the axiomatic enrichment of the Gene Ontology from a lexical perspective. <i>Artificial Intelligence in Medicine</i> , <b>2015</b> , 65, 35-48	7.4	8
71	OntoEnrich: A Platform for the Lexical Analysis of Ontologies. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 172-176	0.9	2
70	Lessons learned in the generation of biomedical research datasets using Semantic Open Data technologies. <i>Studies in Health Technology and Informatics</i> , <b>2015</b> , 210, 165-9	0.5	2
69	Ontology-based infrastructure for a meaningful EHR representation and use <b>2014</b> ,		5

68	Evaluating the Good Ontology Design Guideline (GoodOD) with the ontology quality requirements and evaluation method and metrics (OQuARE). <i>PLoS ONE</i> , <b>2014</b> , 9, e104463	3.7	15
67	Special issue on Linked Data for Health Care and the Life Sciences. <i>Semantic Web</i> , <b>2014</b> , 5, 99-100	2.4	6
66	Translational research combining orthologous genes and human diseases with the OGOLOD dataset. <i>Semantic Web</i> , <b>2014</b> , 5, 145-149	2.4	5
65	A Quality Assurance Workflow for Ontologies Based on Semantic Regularities. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 288-303	0.9	1
64	OPPL-Galaxy, a Galaxy tool for enhancing ontology exploitation as part of bioinformatics workflows. <i>Journal of Biomedical Semantics</i> , <b>2013</b> , 4, 2	2.2	2
63	Leveraging electronic healthcare record standards and semantic web technologies for the identification of patient cohorts. <i>Journal of the American Medical Informatics Association: JAMIA</i> , <b>2013</b> , 20, e288-96	8.6	30
62	OWL-based reasoning methods for validating archetypes. <i>Journal of Biomedical Informatics</i> , <b>2013</b> , 46, 304-17	10.2	16
61	Tecnologías semánticas para la evaluación en red: análisis de una experiencia con la herramienta OeLE. <i>Revista De Investigacion Educativa</i> , <b>2013</b> , 31,	1.3	2
60	Recommendation of Personalized Learning Contents Supported by Semantic Web Technologies. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 540-545	0.3	
59	Evaluation of the OQuARE framework for ontology quality. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 2696-2703	7.8	33
58	Lexical Characterization and Analysis of the BioPortal Ontologies. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 206-215	0.9	6
57	Interoperability of EHR Systems Based on Semantic Representation and Transformation Models. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , <b>2013</b> , 59-81	0.3	
56	A Social-Empowered Platform for Gathering Semantic Information. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 534-539	0.3	
55	A semantic platform for the management of the educative curriculum. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 6011-6019	7.8	12
54	SocialBROKER: A collaborative social space for gathering semantically-enhanced financial information. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 9715-9722	7.8	12
53	A generative tool for building health applications driven by ISO 13606 archetypes. <i>Journal of Medical Systems</i> , <b>2012</b> , 36, 3063-75	5.1	3
52	Using the ResearchEHR platform to facilitate the practical application of the EHR standards. <i>Journal of Biomedical Informatics</i> , <b>2012</b> , 45, 746-62	10.2	24
51	Semantic Web technologies for generating feedback in online assessment environments. <i>Knowledge-Based Systems</i> , <b>2012</b> , 33, 152-165	7.3	18

50	Linking genome annotation projects with genetic disorders using ontologies. <i>Journal of Medical Systems</i> , <b>2012</b> , 36 Suppl 1, S11-23	5.1	1
49	Extraction and analysis of the structure of labels in biomedical ontologies <b>2012</b> ,		3
48	Informal learning through expertise mining in the social web. <i>Behaviour and Information Technology</i> , <b>2012</b> , 31, 757-766	2.4	11
47	Publishing Orthology and Diseases Information in the Linked Open Data Cloud. <i>Current Bioinformatics</i> , <b>2012</b> , 7, 255-266	4.7	3
46	OWLPath: An OWL Ontology-Guided Query Editor. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , <b>2011</b> , 41, 121-136		37
45	Clinical data interoperability based on archetype transformation. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 869-80	10.2	43
44	Semantic integration of information about orthologs and diseases: the OGO system. <i>Journal of Biomedical Informatics</i> , <b>2011</b> , 44, 1020-31	10.2	5
43	Financial news semantic search engine. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 15565-15572	7.8	41
42	Semantic Web Technologies for supporting learning assessment. <i>Information Sciences</i> , <b>2011</b> , 181, 1517-1537	7.7	45
41	Ontology learning from biomedical natural language documents using UMLS. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 12365-12378	7.8	27
40	Exploitation of Translational Bioinformatics for Decision-Making on Cancer Treatments. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 1-15	0.9	1
39	Ontology-Driven Method for Integrating Biomedical Repositories. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 473-482	0.9	
38	Validation of the openEHR archetype library by using OWL reasoning. <i>Studies in Health Technology and Informatics</i> , <b>2011</b> , 169, 789-93	0.5	3
37	Technologies and Best Practices for Building Bio-Ontologies <b>2010</b> , 67-86		1
36	Exploitation of social semantic technology for software development team configuration. <i>IET Software</i> , <b>2010</b> , 4, 373	1	8
35	Semantic Web-based system for managing the educative curriculum. <i>Procedia, Social and Behavioral Sciences</i> , <b>2010</b> , 2, 521-526		3
34	An extension of the OeLE platform for generating semantic feedback for students and teachers. <i>Procedia, Social and Behavioral Sciences</i> , <b>2010</b> , 2, 527-531		6
33	An incremental knowledge acquisition-based system for supporting decisions in biomedical domains. <i>Computer Methods and Programs in Biomedicine</i> , <b>2010</b> , 98, 161-71	6.9	4

32	An approach for the semantic interoperability of ISO EN 13606 and OpenEHR archetypes. <i>Journal of Biomedical Informatics</i> , <b>2010</b> , 43, 736-46	10.2	59
31	An incremental knowledge acquisition-based system for critical domains. <i>Expert Systems With Applications</i> , <b>2010</b> , 37, 2838-2847	7.8	2
30	A Semantic Query Interface for the OGO Platform. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 128-142	0.9	4
29	Enriching the Gene Ontology via the Dissection of Labels Using the Ontology Pre-processor Language. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 59-73	0.9	6
28	Flexible Semantic Querying of Clinical Archetypes. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 597-606	0.9	
27	Semantic enrichment of SCORM metadata for efficient management of educative contents. <i>Procedia, Social and Behavioral Sciences</i> , <b>2009</b> , 1, 927-932		5
26	OGO: an ontological approach for integrating knowledge about orthology. <i>BMC Bioinformatics</i> , <b>2009</b> , 10 Suppl 10, S13	3.6	13
25	LinEHR-Ed: a multi-reference model archetype editor based on formal semantics. <i>International Journal of Medical Informatics</i> , <b>2009</b> , 78, 559-70	5.3	50
24	A model-driven approach for representing clinical archetypes for Semantic Web environments. <i>Journal of Biomedical Informatics</i> , <b>2009</b> , 42, 150-64	10.2	48
23	An application of intelligent techniques and semantic web technologies in e-learning environments. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 1922-1931	7.8	52
22	An ontology, intelligent agent-based framework for the provision of semantic web services. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 3167-3187	7.8	66
21	Measuring individual learning performance in group work from a knowledge integration perspective. <i>Information Sciences</i> , <b>2009</b> , 179, 339-354	7.7	23
20	Accessing Touristic Knowledge Bases through a Natural Language Interface. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 147-160	0.9	7
19	A knowledge acquisition methodology to ontology construction for information retrieval from medical documents. <i>Expert Systems</i> , <b>2008</b> , 25, 314-334	2.1	34
18	Combining Semantic Web technologies with Multi-Agent Systems for integrated access to biological resources. <i>Journal of Biomedical Informatics</i> , <b>2008</b> , 41, 848-59	10.2	36
17	A Semantic Web-based System for Managing Clinical Archetypes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 1482-5	0.9	8
16	Knowledge Technologies-Based Multi-Agent System for Semantic Web Services Environments. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 1222-1233	0.9	
15	Using Semantic Web Technologies for the Assessment of Open Questions. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 42-53	0.9	1

14	An ontology-based intelligent system for recruitment. <i>Expert Systems With Applications</i> , <b>2006</b> , 31, 248-263	7.8	54
13	A knowledge-based approach to assign breast cancer treatments in oncology units. <i>Expert Systems With Applications</i> , <b>2006</b> , 31, 451-457	7.8	18
12	An Ontological Infrastructure for the Semantic Integration of Clinical Archetypes. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 156-167	0.9	7
11	Using semantic technologies to promote interoperability between electronic healthcare recordsU information models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 2614-7		4
10	Visual Knowledge Annotation and Management by Using Qualitative Spatial Information. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1-12	0.9	
9	A Methodology for Extracting Ontological Knowledge from Spanish Documents. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 71-80	0.9	9
8	COOPERATIVE MODELLING EVALUATED. <i>International Journal of Cooperative Information Systems</i> , <b>2005</b> , 14, 45-71	0.6	27
7	An Approach for Ontology Building from Text Supported by NLP Techniques. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 126-135	0.9	3
6	An incremental approach for discovering medical knowledge from texts. <i>Expert Systems With Applications</i> , <b>2004</b> , 26, 291-299	7.8	23
5	Towards cooperative frameworks for modeling and integrating biological processes knowledge. <i>IEEE Transactions on Nanobioscience</i> , <b>2004</b> , 3, 164-71	3.4	5
4	An approach for incremental knowledge acquisition from text. <i>Expert Systems With Applications</i> , <b>2003</b> , 25, 77-86	7.8	22
3	An ontological framework for representing and exploiting medical knowledge. <i>Expert Systems With Applications</i> , <b>2003</b> , 25, 211-230	7.8	13
2	A cooperative framework for integrating ontologies. <i>International Journal of Human Computer Studies</i> , <b>2002</b> , 56, 665-720	4.6	37
1	A cooperative tool for facilitating knowledge management. <i>Expert Systems With Applications</i> , <b>2000</b> , 18, 315-330	7.8	21