

# Ricardo Jardim-Goncalves

## List of Publications by Year in descending order

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Version: 2024-02-01

173  
papers

2,425  
citations

279487

23  
h-index

243296

44  
g-index

183  
all docs

183  
docs citations

183  
times ranked

1601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Value proposition on interoperability of BIM and collaborative working environments. Automation in Construction, 2010, 19, 522-530.	4.8	299
2	Challenging the interoperability between computers in industry with MDA and SOA. Computers in Industry, 2006, 57, 679-689.	5.7	117
3	New perspectives for the future interoperable enterprise systems. Computers in Industry, 2016, 79, 47-63.	5.7	103
4	Systematisation of Interoperability Body of Knowledge: the foundation for Enterprise Interoperability as a science. Enterprise Information Systems, 2013, 7, 7-32.	3.3	101
5	Challenging electronic procurement in the AEC sector: A BIM-based integrated perspective. Automation in Construction, 2011, 20, 107-114.	4.8	99
6	Towards a sustainable interoperability in networked enterprise information systems: Trends of knowledge and model-driven technology. Computers in Industry, 2016, 79, 64-76.	5.7	91
7	Decentralized decision support for intelligent manufacturing in Industry 4.0. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 299-313.	0.8	89
8	Enabling interoperability of STEP Application Protocols at meta-data and knowledge level. International Journal of Technology Management, 2006, 36, 402.	0.2	88
9	Knowledge framework for intelligent manufacturing systems. Journal of Intelligent Manufacturing, 2011, 22, 725-735.	4.4	66
10	Novel strategies for global manufacturing systems interoperability. Journal of Intelligent Manufacturing, 2016, 27, 1-9.	4.4	65
11	An Ontology-Based Cybersecurity Framework for the Internet of Things. Sensors, 2018, 18, 3053.	2.1	64
12	SOA4BIM: Putting the building and construction industry in the Single European Information Space. Automation in Construction, 2010, 19, 388-397.	4.8	60
13	MENTOR: an enabler for interoperable intelligent systems. International Journal of General Systems, 2010, 39, 557-573.	1.2	52
14	Model-based approaches for interoperability of next generation enterprise information systems: state of the art and future challenges. Information Systems and E-Business Management, 2017, 15, 229-256.	2.2	50
15	Construction collaborative networks: the case study of a building information modelling-based office building project. International Journal of Computer Integrated Manufacturing, 2013, 26, 152-165.	2.9	44
16	Sustainable interoperability: The future of Internet based industrial enterprises. Computers in Industry, 2012, 63, 731-738.	5.7	42
17	Cloud-Marketplaces: Distributed e-procurement for the AEC sector. Advanced Engineering Informatics, 2013, 27, 160-172.	4.0	42
18	Facilitating knowledge sharing and reuse in building and construction domain: an ontology-based approach. Journal of Intelligent Manufacturing, 2016, 27, 263-282.	4.4	41

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19	Enterprise Integration and Networking: Theory and practice. Annual Reviews in Control, 2012, 36, 284-290.	4.4	39
20	A reference model for sustainable interoperability in networked enterprises: towards the foundation of EI science base. International Journal of Computer Integrated Manufacturing, 2012, 25, 855-873.	2.9	38
21	Twitter mining for traffic events detection. , 2015, , .		37
22	The Business Interoperability Quotient Measurement Model. Computers in Industry, 2012, 63, 389-404.	5.7	33
23	Harmonising technologies in conceptual models representation. International Journal of Product Lifecycle Management, 2007, 2, 187.	0.1	32
24	Sustaining interoperability of networked liquid-sensing enterprises: A complex systems perspective. Annual Reviews in Control, 2015, 39, 128-143.	4.4	28
25	An architecture for big data processing on intelligent transportation systems. An application scenario on highway traffic flows. , 2016, , .		28
26	Towards a reference ontology for security in the Internet of Things. , 2015, , .		26
27	NEGOSEIO: A framework for negotiations toward Sustainable Enterprise Interoperability. Annual Reviews in Control, 2012, 36, 291-299.	4.4	23
28	Service-based negotiation for advanced collaboration in enterprise networks. Journal of Intelligent Manufacturing, 2016, 27, 201-216.	4.4	22
29	Tuple-Based Semantic and Structural Mapping for a Sustainable Interoperability. International Federation for Information Processing, 2011, , 45-56.	0.4	21
30	Infusing scientific foundations into Enterprise Interoperability. Computers in Industry, 2012, 63, 858-866.	5.7	21
31	Reference framework for enhanced interoperable collaborative networks in industrial organisations. International Journal of Computer Integrated Manufacturing, 2013, 26, 166-182.	2.9	21
32	MENTOR &#x2014; A methodology for enterprise reference ontology development. , 2008, , .		19
33	IoT based situational awareness framework for real-time project management. International Journal of Computer Integrated Manufacturing, 0, , 1-10.	2.9	17
34	Smart Cargo for Multimodal Freight Transport: When "Cloud" becomes "Fog". IFAC-PapersOnLine, 2016, 49, 121-126.	0.5	16
35	Cyber-Physical Systems: a multi-criteria assessment for Internet-of-Things (IoT) systems. Enterprise Information Systems, 2021, 15, 332-351.	3.3	15
36	Sustainable systems' interoperability: A reference model for seamless networked business. , 2010, , .		13

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37	Collaborative negotiation for ontology-driven enterprise businesses. Computers in Industry, 2014, 65, 1232-1241.	5.7	13
38	Dynamic Business Networks: A Headache for Sustainable Systems Interoperability. Lecture Notes in Computer Science, 2009, , 194-204.	1.0	13
39	Novel Big Data-supported dynamic toll charging system: Impact assessment on Portugal's shadow-toll highways. Computers and Industrial Engineering, 2019, 135, 476-491.	3.4	12
40	Analysis of relevant standards for industrial systems to support zero defects manufacturing process. Journal of Industrial Information Integration, 2021, 23, 100214.	4.3	12
41	ICIF: an inter-cloud interoperability framework for computing resource cloud providers in factories of the future. International Journal of Computer Integrated Manufacturing, 0, , 1-11.	2.9	11
42	Sustainability and Interoperability: Two Facets of the Same Gold Medal. Lecture Notes in Computer Science, 2013, , 250-261.	1.0	11
43	Implicit multilevel modeling in flexible business environments. Communications of the ACM, 2002, 45, 53-57.	3.3	9
44	A framework for measuring value in business interoperability. , 2007, , .		9
45	Management of IoT Devices in a Physical Network. , 2017, , .		9
46	A multi-criteria decision model for the selection of a more suitable Internet-of-Things device. , 2017, , .		9
47	Semantic Data Management for a Virtual Factory Collaborative Environment. Applied Sciences (Switzerland), 2019, 9, 4936.	1.3	9
48	Sustainable interoperability on space mission feasibility studies. Computers in Industry, 2013, 64, 925-937.	5.7	8
49	AP236-XML: A Framework for Integration and Harmonization of STEP Application Protocols. , 2005, , .		8
50	Implementation of computer integrated manufacturing systems using SIP: Cim case studies using a STEP approach. International Journal of Computer Integrated Manufacturing, 1997, 10, 172-180.	2.9	7
51	A Framework for Sustainable Interoperability of Negotiation Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1258-1263.	0.4	7
52	A Multi-agent Based Negotiation System for Re-establishing Enterprise Interoperability in Collaborative Networked Environments. , 2013, , .		7
53	Standard Blueprints for Interoperability in Factories of the Future (FoF). IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1322-1327.	0.4	7
54	Dynamic Adaptors to Support Model-Driven Interoperability and Enhance Sensing Enterprise Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2400-2407.	0.4	7

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55	Collaborative Management of Requirements Using Semantic Wiki Modules. , 2015, , .		7
56	Annotation for Enterprise Information Management Traceability. , 2007, , .		7
57	A framework for STEP-based harmonization of conceptual models. , 2006, , .		6
58	Semantic Enrichment of Standard-based Electronic Catalogues. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 163-168.	0.4	6
59	Building information modeling and collaborative working environments. Automation in Construction, 2010, 19, 521.	4.8	6
60	Collaborative ontology building using qualitative information collection methods. , 2010, , .		6
61	Knowledge Representation in Support of Adaptable eLearning Services for All. Procedia Computer Science, 2012, 14, 391-402.	1.2	6
62	Resolving Interoperability in Concurrent Engineering. , 2015, , 133-163.		6
63	Affective Computing to Enhance Emotional Sustainability of Students in Dropout Prevention. , 2016, , .		6
64	On the formal definition of the systemsâ€™ interoperability capability: an anthropomorphic approach. Enterprise Information Systems, 2017, 11, 389-413.	3.3	6
65	Responsive Production in Manufacturing: A Modular Architecture. Studies in Systems, Decision and Control, 2018, , 231-254.	0.8	6
66	Interoperability of Complex Business Networks by Language Independent Information Models. Advanced Concurrent Engineering, 2010, , 111-124.	0.2	6
67	Profiling Based on Music and Physiological State. Proceedings of the I-ESA Conference, 2016, , 123-135.	0.4	6
68	Studentâ€™s Attention Improvement Supported by Physiological Measurements Analysis. IFIP Advances in Information and Communication Technology, 2017, , 93-102.	0.5	6
69	A framework for enterprise context analysis based on semantic principles. Computer Science and Information Systems, 2015, 12, 931-960.	0.7	6
70	Seeking intelligent product developmentâ€™an integrator environment based on STEP. Journal of Intelligent Manufacturing, 1999, 10, 313-321.	4.4	5
71	Framework for Customersâ€™ Sentiment Analysis. Advances in Intelligent Systems and Computing, 2015, , 849-860.	0.5	5
72	A Self-Adapted Swarm Architecture to Handle Big Data for â€™Factories of the Futureâ€™. IFAC-PapersOnLine, 2019, 52, 916-921.	0.5	5

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73	Integrating manufacturing systems using ISO 10303 (STEP): An overview of UNINOVA projects. International Journal of Computer Applications in Technology, 1999, 12, 39.	0.3	4
74	Analysis of interoperability value proposition in the architectural, engineering and construction sector. , 2009, , .		4
75	Cloud-based negotiation for sustainable enterprise interoperability. , 2012, , .		4
76	Learning challenges: Remote labs powered by the five senses. , 2013, , .		4
77	Framework for inter-operative e-Procurement marketplace. , 2013, , .		4
78	A behavioral framework for capturing emotional information in an internet of things environment. , 2013, , .		4
79	E-Training Development Approach for Enterprise Knowledge Evolution. , 2013, , .		4
80	Knowledge Management support in Sensing Enterprises Establishment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 839-844.	0.4	4
81	Matching heterogeneous e-catalogues in B2B marketplaces using vector space model. International Journal of Computer Integrated Manufacturing, 0, , 1-13.	2.9	4
82	End-to-end manufacturing in factories of the future. International Journal of Computer Integrated Manufacturing, 2016, , 1-13.	2.9	4
83	Semantic maps for IoT network reorganization in face of sensor malfunctioning. , 2017, , .		4
84	Negotiations Framework for Monitoring the Sustainability of Interoperability Solutions. Lecture Notes in Business Information Processing, 2012, , 172-184.	0.8	4
85	EXPRESS to OWL morphism: making possible to enrich ISO10303 Modules. , 2007, , 391-402.		4
86	DYNAMOD: A Modelling Framework for Digital Businesses based on Agent Based Modeling. , 2013, , .		3
87	Energy consumption evaluation to reduce manufacturing costs. , 2013, , .		3
88	Collaborative production using dynamic manufacturing networks for SME's. , 2014, , .		3
89	A framework for technological research results assessment. International Journal of Computer Integrated Manufacturing, 0, , 1-19.	2.9	3
90	Simulation and forecasting of digital pricing models for an e-procurement platform using an agent-based simulation model. Journal of Simulation, 2018, 12, 211-224.	1.0	3

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91	Model-driven data-intensive Enterprise Information Systems. Enterprise Information Systems, 2018, 12, 910-914.	3.3	3
92	Interoperability enablers for cyber-physical enterprise systems. Enterprise Information Systems, 2020, 14, 1061-1070.	3.3	3
93	Empowering SMEs with Cyber-Physical Production Systems: From Modelling a Polishing Process of Cutlery Production to CPPS Experimentation. Studies in Computational Intelligence, 2020, , 139-177.	0.7	3
94	MDA-Based Interoperability Establishment Using Language Independent Information Models. Lecture Notes in Business Information Processing, 2012, , 146-160.	0.8	3
95	Putting the pieces together using standards. , 2001, , 735-757.		3
96	On the Scientific Foundations of Enterprise Interoperability. Advances in Business Strategy and Competitive Advantage Book Series, 0, , 336-355.	0.2	3
97	Ontology-Based Framework for Enhanced Interoperability in Networked Industrial Environments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 623-628.	0.4	2
98	Managing engineering and technology with better interoperability in smart organizations. , 2008, , .		2
99	Semiotics-based manufacturing systems integration in the advent of a single electronic market. International Journal of Computer Integrated Manufacturing, 2010, 23, 832-851.	2.9	2
100	Tuple-Based Morphisms for E-Procurement Solutions. , 2011, , .		2
101	Knowledge Based Methodology Supporting Interoperability Increase in Manufacture Domain. , 2011, , .		2
102	Monitoring Morphisms to Support Sustainable Interoperability of Enterprise Systems. Lecture Notes in Computer Science, 2011, , 71-82.	1.0	2
103	Ontology Enriched Framework for Cloud-based Enterprise Interoperability. , 2013, , 1155-1166.		2
104	A Semantic Enrichment Approach Based on the Vector Space Model Supporting Collaboration in the Manufacturing Domain. , 2015, , .		2
105	An architecture to support responsive production in manufacturing companies. , 2016, , .		2
106	The application of security adaptive framework for sensor in industrial systems. , 2016, , .		2
107	An Approach for Detecting Traffic Events Using Social Media. Studies in Computational Intelligence, 2016, , 61-81.	0.7	2
108	A negotiation approach to support interoperability in a collaborative manufacturing environment. , 2017, , .		2

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109	Coordinating negotiations in data-intensive collaborative working environments using an agent-based model-driven platform. Enterprise Information Systems, 2018, 12, 1100-1128.	3.3	2
110	An Intelligent System to Ensure Interoperability for the Dairy Farm Business Model. Future Internet, 2021, 13, 153.	2.4	2
111	Semantic Harmonization for Seamless Networked Supply Chain Planning in the Future of Internet. International Federation for Information Processing, 2010, , 78-89.	0.4	2
112	Developing Interoperability in Mass Customization Information Systems. , 2010, , 49-74.		2
113	Modelling of Things on the Internet for the Search by the Human Brain. IFIP Advances in Information and Communication Technology, 2013, , 71-79.	0.5	2
114	Automated Negotiation with Multi-agent Systems in Business Processes. Advances in Intelligent Systems and Computing, 2015, , 289-301.	0.5	2
115	Seeking Compatibility Between Product Data Libraries for the Furniture Industry. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 511-515.	0.4	1
116	Integration and adoptability of APs: the role of ISO TC184/SC4 standards. International Journal of Computer Applications in Technology, 2003, 18, 105.	0.3	1
117	Product Data integration in the demand of interoperability in e-Business. , 2006, , .		1
118	Model morphisms as an enabler for open visualization of product data. , 2008, , .		1
119	Challenges for the Development of Interoperable Information Systems in Healthcare Organizations. , 2009, , .		1
120	Standards Framework for Intelligent Manufacturing Systems Supply Chain. , 2011, , .		1
121	Monitor for Information Alignment and Sustainability in Logistics Networks. , 2012, , .		1
122	Negotiation environment for enterprise interoperability sustainability. , 2013, , .		1
123	Intelligent Negotiation Mechanism for Supporting the Interoperability within the Sensing Enterprise. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1328-1333.	0.4	1
124	Enhanced Affective Factors Management for HEI Students Dropout Prevention. Lecture Notes in Computer Science, 2016, , 675-684.	1.0	1
125	Multi-sensorial support for disabled users a case study with AutoCAD. , 2016, , .		1
126	Ontological Interaction Using JENA and SPARQL Applied to Onto-AmazonTimber Ontology. IFIP Advances in Information and Communication Technology, 2016, , 54-61.	0.5	1



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127	A Model-Driven Adaptive Approach for IoT Security. Communications in Computer and Information Science, 2017, , 194-215.	0.4	1
128	IoT-Based Automatic Non-conformity Detection: A Metalworking SME Use Case. Proceedings of the I-ESA Conference, 2019, , 155-165.	0.4	1
129	Simulating Digital Businesses using an Agent Based Modeling Approach. , 2014, , .		1
130	A Framework for Negotiation-Based Sustainable Interoperability for Space Mission Design. Lecture Notes in Computer Science, 2012, , 93-102.	1.0	1
131	Inter-university Virtual Learning Environment. Studies in Computational Intelligence, 2014, , 97-119.	0.7	1
132	DYNAMOD"An Agent Based Modeling Framework: Applications to Online Social Networks. Advances in Intelligent Systems and Computing, 2014, , 349-361.	0.5	1
133	A Knowledge Management Framework to Support Online Communities Creation. IFIP Advances in Information and Communication Technology, 2014, , 29-36.	0.5	1
134	Accelerating Web-Entrepreneurship in Local Incubation Environments. Lecture Notes in Business Information Processing, 2015, , 183-194.	0.8	1
135	Understanding Personal Mobility Patterns for Proactive Recommendations. Lecture Notes in Computer Science, 2015, , 127-136.	1.0	1
136	Underpinning EISB with Enterprise Interoperability Neighboring Scientific Domains. Advances in Business Strategy and Competitive Advantage Book Series, 0, , 41-76.	0.2	1
137	Developing Interoperability in Mass Customization Information Systems. , 0, , 136-161.		1
138	Product Lifecycle Management Enhancement With an Ontological Approach. , 2005, , 869.		0
139	Ontological harmonization of enterprise product models: an experimented scenario. , 2006, , .		0
140	A training curriculum in collaboration for engineering management. , 2008, , .		0
141	Application of SQuaRE and Generalized Nets for extended validation of CE systems. , 2009, , .		0
142	Towards EI as a science: Considerations and points of view. , 2009, , .		0
143	Monitoring Morphisms to Support Sustainability of Interoperability in the Manufacturing Domain. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1264-1271.	0.4	0
144	Methodology for the Economic Viability of Companies in the Semantic Adaptation of Information Systems. , 2012, , .		0

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145	Sustainable Interoperability of Negotiation of Manufacturing Robotic Machining Processes. , 2013, , .		0
146	Semantic Adaptation of Knowledge Representation Systems. IFIP Advances in Information and Communication Technology, 2013, , 88-95.	0.5	0
147	Semantic enrichment of building and construction knowledge sources using a domain ontology for classification. , 2013, , .		0
148	MSIRP: Methodology for the Economic Viability of Semantic Interoperability Resolution Projects. , 2013, , .		0
149	Towards a service bus for distributed manufacturing. , 2013, , .		0
150	Agents and rules for the negotiation of interoperability solutions. , 2013, , .		0
151	An evaluation approach for research project pilot technological applications. , 2013, , .		0
152	Multi-agent framework for negotiation in a closed environment. , 2013, , .		0
153	Methodology for Negotiation in Collaborative Working Environment for Innovation in Services Design. , 2014, , .		0
154	Towards the Framework for the Design of Human Centric Internet of Things. , 2014, , .		0
155	Services for Business Knowledge Representation and Capture. Communications in Computer and Information Science, 2015, , 421-436.	0.4	0
156	Semantic Alignment for Interoperable Manufacturing Networks Establishment. , 2015, , .		0
157	Negotiation in Collaborative Working Environment for the Next Generation of Product Design. , 2015, , .		0
158	A Reference Lexicon Definition from Fact Models. IFAC-PapersOnLine, 2015, 48, 300-307.	0.5	0
159	Information Realignment in Pursuit of Self-Sustainable Interoperability at the Digital and Sensing Enterprise. IFAC-PapersOnLine, 2015, 48, 38-45.	0.5	0
160	Case-Based Support to Sustainable Interoperability and Decision in Enterprise Networks. , 2016, , .		0
161	A Self Sustainable Approach for IoT Services Provisioning. Proceedings of the I-ESA Conference, 2016, , 39-50.	0.4	0
162	Big Data Harmonization for Intelligent Mobility: A Dynamic Toll-Charging Scenario. Lecture Notes in Computer Science, 2017, , 76-86.	1.0	0

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163	The Role of the CIO in the Development of Interoperable Information Systems in Healthcare Organizations. , 2010, , 25-46.		0
164	Factories of the Future - Enabling Interoperability over the Complete Supply Chain. , 0, , 205-208.		0
165	Management of Dynamic Furniture Manufacturing Networks. , 0, , 209-217.		0
166	Framework for Management of Internet Objects in Their Relation With Human Sensations and Emotions. , 2013, , .		0
167	The Role of Ethical Issues in Collaborative Manufacturing Research. , 2014, , .		0
168	Underpinning EISB with Enterprise Interoperability Neighboring Scientific Domains. , 2015, , 1550-1581.		0
169	Humans in the Enterprise Interoperability Ecosystem. Lecture Notes in Business Information Processing, 2015, , 92-98.	0.8	0
170	On the Scientific Foundations of Enterprise Interoperability. , 2015, , 108-127.		0
171	Brain Inspired Health Monitoring Supported by the Cloud. IFIP Advances in Information and Communication Technology, 2015, , 273-281.	0.5	0
172	Collaborative Knowledge Management Using Wiki Front-End Modules. Lecture Notes in Business Information Processing, 2015, , 69-86.	0.8	0
173	Underpinning EISB With Enterprise Interoperability Neighboring Scientific Domains. , 0, , 1199-1231.		0