Ricardo Jardim-Goncalves

List of Publications by Year
in descending order

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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	Cyber-Physical Systems: a multi-criteria assessment for Internet-of-Things (IoT) systems. Enterprise Information Systems, 2021, 15, 332-351.	3.3	15
2	An Intelligent System to Ensure Interoperability for the Dairy Farm Business Model. Future Internet, 2021, 13, 153.	2.4	2
3	Analysis of relevant standards for industrial systems to support zero defects manufacturing process. Journal of Industrial Information Integration, 2021, 23, 100214.	4.3	12
4	Interoperability enablers for cyber-physical enterprise systems. Enterprise Information Systems, 2020, 14, 1061-1070.	3.3	3
5	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
6	Novel Big Data-supported dynamic toll charging system: Impact assessment on Portugalâ€™s shadow-toll highways. Computers and Industrial Engineering, 2019, 135, 476-491.	3.4	12
7	IoT-Based Automatic Non-conformity Detection: A Metalworking SME Use Case. Proceedings of the I-ESA Conference, 2019, , 155-165.	0.4	1
8	A Self-Adapted Swarm Architecture to Handle Big Data for â€œFactories of the Futureâ€• IFAC-PapersOnLine, 2019, 52, 916-921.	0.5	5
9	Semantic Data Management for a Virtual Factory Collaborative Environment. Applied Sciences (Switzerland), 2019, 9, 4936.	1.3	9
10	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
11	Model-driven data-intensive Enterprise Information Systems. Enterprise Information Systems, 2018, 12, 910-914.	3.3	3
12	An Ontology-Based Cybersecurity Framework for the Internet of Things. Sensors, 2018, 18, 3053.	2.1	64
13	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
14	Responsive Production in Manufacturing: A Modular Architecture. Studies in Systems, Decision and Control, 2018, , 231-254.	0.8	6
15	On the formal definition of the systemsâ€™ interoperability capability: an anthropomorphic approach. Enterprise Information Systems, 2017, 11, 389-413.	3.3	6
16	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
17	Decentralized decision support for intelligent manufacturing in Industry 4.0. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 299-313.	0.8	89
18	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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19	A Model-Driven Adaptive Approach for IoT Security. Communications in Computer and Information Science, 2017, , 194-215.	0.4	1
20	Management of IoT Devices in a Physical Network. , 2017, , .		9
21	Semantic maps for IoT network reorganization in face of sensor malfunctioning. , 2017, , .		4
22	A multi-criteria decision model for the selection of a more suitable Internet-of-Things device. , 2017, , .		9
23	A negotiation approach to support interoperability in a collaborative manufacturing environment. , 2017, , .		2
24	Studentâ€™s Attention Improvement Supported by Physiological Measurements Analysis. IFIP Advances in Information and Communication Technology, 2017, , 93-102.	0.5	6
25	Service-based negotiation for advanced collaboration in enterprise networks. Journal of Intelligent Manufacturing, 2016, 27, 201-216.	4.4	22
26	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
27	Novel strategies for global manufacturing systems interoperability. Journal of Intelligent Manufacturing, 2016, 27, 1-9.	4.4	65
28	Affective Computing to Enhance Emotional Sustainability of Students in Dropout Prevention. , 2016, , .		6
29	Enhanced Affective Factors Management for HEI Students Dropout Prevention. Lecture Notes in Computer Science, 2016, , 675-684.	1.0	1
30	Case-Based Support to Sustainable Interoperability and Decision in Enterprise Networks. , 2016, , .		0
31	An architecture to support responsive production in manufacturing companies. , 2016, , .		2
32	Multi-sensorial support for disabled users a case study with AutoCAD. , 2016, , .		1
33	Smart Cargo for Multimodal Freight Transport: When â€œCloudâ€•becomes â€œFogâ€• IFAC-PapersOnLine, 2016, 49, 121-126.	0.5	16
34	An architecture for big data processing on intelligent transportation systems. An application scenario on highway traffic flows. , 2016, , .		28
35	A Self Sustainable Approach for IoT Services Provisioning. Proceedings of the I-ESA Conference, 2016, , 39-50.	0.4	0
36	The application of security adaptive framework for sensor in industrial systems. , 2016, , .		2

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37	An Approach for Detecting Traffic Events Using Social Media. Studies in Computational Intelligence, 2016, , 61-81.	0.7	2
38	End-to-end manufacturing in factories of the future. International Journal of Computer Integrated Manufacturing, 2016, , 1-13.	2.9	4
39	Ontological Interaction Using JENA and SPARQL Applied to Onto-AmazonTimber Ontology. IFIP Advances in Information and Communication Technology, 2016, , 54-61.	0.5	1
40	New perspectives for the future interoperable enterprise systems. Computers in Industry, 2016, 79, 47-63.	5.7	103
41	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
42	Profiling Based on Music and Physiological State. Proceedings of the I-ESA Conference, 2016, , 123-135.	0.4	6
43	Services for Business Knowledge Representation and Capture. Communications in Computer and Information Science, 2015, , 421-436.	0.4	0
44	A Semantic Enrichment Approach Based on the Vector Space Model Supporting Collaboration in the Manufacturing Domain. , 2015, , .		2
45	Semantic Alignment for Interoperable Manufacturing Networks Establishment. , 2015, , .		0
46	Negotiation in Collaborative Working Environment for the Next Generation of Product Design. , 2015, , .		0
47	A Reference Lexicon Definition from Fact Models. IFAC-PapersOnLine, 2015, 48, 300-307.	0.5	0
48	Information Realignment in Pursuit of Self-Sustainable Interoperability at the Digital and Sensing Enterprise. IFAC-PapersOnLine, 2015, 48, 38-45.	0.5	0
49	Collaborative Management of Requirements Using Semantic Wiki Modules. , 2015, , .		7
50	Framework for Customersâ€™ Sentiment Analysis. Advances in Intelligent Systems and Computing, 2015, , 849-860.	0.5	5
51	Resolving Interoperability in Concurrent Engineering. , 2015, , 133-163.		6
52	Towards a reference ontology for security in the Internet of Things. , 2015, , .		26
53	Twitter mining for traffic events detection. , 2015, , .		37
54	Sustaining interoperability of networked liquid-sensing enterprises: A complex systems perspective. Annual Reviews in Control, 2015, 39, 128-143.	4.4	28

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55	A framework for enterprise context analysis based on semantic principles. Computer Science and Information Systems, 2015, 12, 931-960.	0.7	6
56	Underpinning EISB with Enterprise Interoperability Neighboring Scientific Domains. , 2015, , 1550-1581.		0
57	Humans in the Enterprise Interoperability Ecosystem. Lecture Notes in Business Information Processing, 2015, , 92-98.	0.8	0
58	Automated Negotiation with Multi-agent Systems in Business Processes. Advances in Intelligent Systems and Computing, 2015, , 289-301.	0.5	2
59	Accelerating Web-Entrepreneurship in Local Incubation Environments. Lecture Notes in Business Information Processing, 2015, , 183-194.	0.8	1
60	On the Scientific Foundations of Enterprise Interoperability. , 2015, , 108-127.		0
61	Brain Inspired Health Monitoring Supported by the Cloud. IFIP Advances in Information and Communication Technology, 2015, , 273-281.	0.5	0
62	Collaborative Knowledge Management Using Wiki Front-End Modules. Lecture Notes in Business Information Processing, 2015, , 69-86.	0.8	0
63	Understanding Personal Mobility Patterns for Proactive Recommendations. Lecture Notes in Computer Science, 2015, , 127-136.	1.0	1
64	Methodology for Negotiation in Collaborative Working Environment for Innovation in Services Design. , 2014, , .		0
65	Collaborative production using dynamic manufacturing networks for SME's. , 2014, , .		3
66	Collaborative negotiation for ontology-driven enterprise businesses. Computers in Industry, 2014, 65, 1232-1241.	5.7	13
67	Towards the Framework for the Design of Human Centric Internet of Things. , 2014, , .		0
68	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
69	Knowledge Management support in Sensing Enterprises Establishment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 839-844.	0.4	4
70	Simulating Digital Businesses using an Agent Based Modeling Approach. , 2014, , .		1
71	Inter-university Virtual Learning Environment. Studies in Computational Intelligence, 2014, , 97-119.	0.7	1
72	DYNAMODâ€"An Agent Based Modeling Framework: Applications to Online Social Networks. Advances in Intelligent Systems and Computing, 2014, , 349-361.	0.5	1

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73	A Knowledge Management Framework to Support Online Communities Creation. IFIP Advances in Information and Communication Technology, 2014, , 29-36.	0.5	1
74	The Role of Ethical Issues in Collaborative Manufacturing Research. , 2014, , .		0
75	Ontology Enriched Framework for Cloud-based Enterprise Interoperability. , 2013, , 1155-1166.		2
76	Sustainable interoperability on space mission feasibility studies. Computers in Industry, 2013, 64, 925-937.	5.7	8
77	Learning challenges: Remote labs powered by the five senses. , 2013, , .		4
78	Negotiation environment for enterprise interoperability sustainability. , 2013, , .		1
79	A Multi-agent Based Negotiation System for Re-establishing Enterprise Interoperability in Collaborative Networked Environments. , 2013, , .		7
80	Cloud-Marketplaces: Distributed e-procurement for the AEC sector. Advanced Engineering Informatics, 2013, 27, 160-172.	4.0	42
81	Reference framework for enhanced interoperable collaborative networks in industrial organisations. International Journal of Computer Integrated Manufacturing, 2013, 26, 166-182.	2.9	21
82	Systematisation of Interoperability Body of Knowledge: the foundation for Enterprise Interoperability as a science. Enterprise Information Systems, 2013, 7, 7-32.	3.3	101
83	Sustainable Interoperability of Negotiation of Manufacturing Robotic Machining Processes. , 2013, , .		0
84	DYNAMOD: A Modelling Framework for Digital Businesses based on Agent Based Modeling. , 2013, , .		3
85	Semantic Adaptation of Knowledge Representation Systems. IFIP Advances in Information and Communication Technology, 2013, , 88-95.	0.5	0
86	Framework for inter-operative e-Procurement marketplace. , 2013, , .		4
87	Energy consumption evaluation to reduce manufacturing costs. , 2013, , .		3
88	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
89	Semantic enrichment of building and construction knowledge sources using a domain ontology for classification. , 2013, , .		0
90	MSIRP: Methodology for the Economic Viability of Semantic Interoperability Resolution Projects. , 2013, , .		0

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91	A behavioral framework for capturing emotional information in an internet of things environment. , 2013, , .		4
92	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
93	Towards a service bus for distributed manufacturing. , 2013, , .		0
94	Agents and rules for the negotiation of interoperability solutions. , 2013, , .		0
95	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
96	E-Training Development Approach for Enterprise Knowledge Evolution. , 2013, , .		4
97	An evaluation approach for research project pilot technological applications. , 2013, , .		0
98	Multi-agent framework for negotiation in a closed environment. , 2013, , .		0
99	Sustainability and Interoperability: Two Facets of the Same Gold Medal. Lecture Notes in Computer Science, 2013, , 250-261.	1.0	11
100	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
101	Framework for Management of Internet Objects in Their Relation With Human Sensations and Emotions. , 2013, , .		0
102	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
103	A Framework for Sustainable Interoperability of Negotiation Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1258-1263.	0.4	7
104	Methodology for the Economic Viability of Companies in the Semantic Adaptation of Information Systems. , 2012, , .		0
105	Monitor for Information Alignment and Sustainability in Logistics Networks. , 2012, , .		1
106	Enterprise Integration and Networking: Theory and practice. Annual Reviews in Control, 2012, 36, 284-290.	4.4	39
107	NEGOSEIO: A framework for negotiations toward Sustainable Enterprise Interoperability. Annual Reviews in Control, 2012, 36, 291-299.	4.4	23
108	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

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110	Infusing scientific foundations into Enterprise Interoperability. Computers in Industry, 2012, 63, 858-866.	5.7	21
111	Sustainable interoperability: The future of Internet based industrial enterprises. Computers in Industry, 2012, 63, 731-738.	5.7	42
112	Knowledge Representation in Support of Adaptable eLearning Services for All. Procedia Computer Science, 2012, 14, 391-402.	1.2	6
113	The Business Interoperability Quotient Measurement Model. Computers in Industry, 2012, 63, 389-404.	5.7	33
114	MDA-Based Interoperability Establishment Using Language Independent Information Models. Lecture Notes in Business Information Processing, 2012, , 146-160.	0.8	3
115	Negotiations Framework for Monitoring the Sustainability of Interoperability Solutions. Lecture Notes in Business Information Processing, 2012, , 172-184.	0.8	4
116	A Framework for Negotiation-Based Sustainable Interoperability for Space Mission Design. Lecture Notes in Computer Science, 2012, , 93-102.	1.0	1
117	Tuple-Based Semantic and Structural Mapping for a Sustainable Interoperability. International Federation for Information Processing, 2011, , 45-56.	0.4	21
118	Standards Framework for Intelligent Manufacturing Systems Supply Chain. , 2011, , .		1
119	Tuple-Based Morphisms for E-Procurement Solutions. , 2011, , .		2
120	Knowledge Based Methodology Supporting Interoperability Increase in Manufacture Domain. , 2011, , .		2
121	Monitoring Morphisms to Support Sustainable Interoperability of Enterprise Systems. Lecture Notes in Computer Science, 2011, , 71-82.	1.0	2
122	Knowledge framework for intelligent manufacturing systems. Journal of Intelligent Manufacturing, 2011, 22, 725-735.	4.4	66
123	Challenging electronic procurement in the AEC sector: A BIM-based integrated perspective. Automation in Construction, 2011, 20, 107-114.	4.8	99
124	Building information modeling and collaborative working environments. Automation in Construction, 2010, 19, 521.	4.8	6
125	Value proposition on interoperability of BIM and collaborative working environments. Automation in Construction, 2010, 19, 522-530.	4.8	299
126	SOA4BIM: Putting the building and construction industry in the Single European Information Space. Automation in Construction, 2010, 19, 388-397.	4.8	60

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127	Collaborative ontology building using qualitative information collection methods. , 2010, , .		6
128	Sustainable systems' interoperability: A reference model for seamless networked business. , 2010, , .		13
129	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
130	MENTOR: an enabler for interoperable intelligent systems. International Journal of General Systems, 2010, 39, 557-573.	1.2	52
131	Interoperability of Complex Business Networks by Language Independent Information Models. Advanced Concurrent Engineering, 2010, , 111-124.	0.2	6
132	Semantic Harmonization for Seamless Networked Supply Chain Planning in the Future of Internet. International Federation for Information Processing, 2010, , 78-89.	0.4	2
133	Developing Interoperability in Mass Customization Information Systems. , 2010, , 49-74.		2
134	The Role of the CIO in the Development of Interoperable Information Systems in Healthcare Organizations. , 2010, , 25-46.		0
135	Analysis of interoperability value proposition in the architectural, engineering and construction sector. , 2009, , .		4
136	Challenges for the Development of Interoperable Information Systems in Healthcare Organizations. , 2009, , .		1
137	Application of SQuaRE and Generalized Nets for extended validation of CE systems. , 2009, , .		0
138	Towards EI as a science: Considerations and points of view. , 2009, , .		0
139	Semantic Enrichment of Standard-based Electronic Catalogues. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 163-168.	0.4	6
140	Dynamic Business Networks: A Headache for Sustainable Systems Interoperability. Lecture Notes in Computer Science, 2009, , 194-204.	1.0	13
141	Managing engineering and technology with better interoperability in smart organizations. , 2008, , .		2
142	Model morphisms as an enabler for open visualization of product data. , 2008, , .		1
143	MENTOR — A methodology for enterprise reference ontology development. , 2008, , .		19
144	A training curriculum in collaboration for engineering management. , 2008, , .		0

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145	Harmonising technologies in conceptual models representation. International Journal of Product Lifecycle Management, 2007, 2, 187.	0.1	32
146	A framework for measuring value in business interoperability. , 2007, , .		9
147	Annotation for Enterprise Information Management Traceability. , 2007, , .		7
148	EXPRESS to OWL morphism: making possible to enrich ISO10303 Modules. , 2007, , 391-402.		4
149	A framework for STEP-based harmonization of conceptual models. , 2006, , .		6
150	Product Data integration in the demand of interoperability in e-Business. , 2006, , .		1
151	Enabling interoperability of STEP Application Protocols at meta-data and knowledge level. International Journal of Technology Management, 2006, 36, 402.	0.2	88
152	Challenging the interoperability between computers in industry with MDA and SOA. Computers in Industry, 2006, 57, 679-689.	5.7	117
153	Ontological harmonization of enterprise product models: an experimented scenario. , 2006, , .		0
154	Product Lifecycle Management Enhancement With an Ontological Approach. , 2005, , 869.		0
155	AP236-XML: A Framework for Integration and Harmonization of STEP Application Protocols. , 2005, , .		8
156	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
157	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
158	Implicit multilevel modeling in flexible business environments. Communications of the ACM, 2002, 45, 53-57.	3.3	9
159	Putting the pieces together using standards. , 2001, , 735-757.		3
160	Seeking intelligent product developmentâ€"an integrator environment based on STEP. Journal of Intelligent Manufacturing, 1999, 10, 313-321.	4.4	5
161	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
162	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

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163	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
164	Matching heterogeneous e-catalogues in B2B marketplaces using vector space model. International Journal of Computer Integrated Manufacturing, 0, , 1-13.	2.9	4
165	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
166	A framework for technological research results assessment. International Journal of Computer Integrated Manufacturing, 0, , 1-19.	2.9	3
167	IoT based situational awareness framework for real-time project management. International Journal of Computer Integrated Manufacturing, 0, , 1-10.	2.9	17
168	Factories of the Future - Enabling Interoperability over the Complete Supply Chain. , 0, , 205-208.		0
169	Management of Dynamic Furniture Manufacturing Networks. , 0, , 209-217.		0
170	Underpinning EISB with Enterprise Interoperability Neighboring Scientific Domains. Advances in Business Strategy and Competitive Advantage Book Series, 0, , 41-76.	0.2	1
171	On the Scientific Foundations of Enterprise Interoperability. Advances in Business Strategy and Competitive Advantage Book Series, 0, , 336-355.	0.2	3
172	Underpinning EISB With Enterprise Interoperability Neighboring Scientific Domains. , 0, , 1199-1231.		0
173	Developing Interoperability in Mass Customization Information Systems. , 0, , 136-161.		1