

Giancarlo Guizzardi

List of Publications by Year in descending order

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154
papers

3,079
citations

218381

26
h-index

276539

41
g-index

172
all docs

172
docs citations

172
times ranked

1405
citing authors

#	ARTICLE	IF	CITATIONS
1	FAIR Principles: Interpretations and Implementation Considerations. Data Intelligence, 2020, 2, 10-29.	0.8	149
2	Towards ontological foundations for conceptual modeling: The unified foundational ontology (UFO) story. Applied Ontology, 2015, 10, 259-271.	1.0	134
3	Modeling resources and capabilities in enterprise architecture: A well-founded ontology-based proposal for ArchiMate. Information Systems, 2015, 54, 235-262.	2.4	91
4	Towards Ontological Foundations for the Conceptual Modeling of Events. Lecture Notes in Computer Science, 2013, , 327-341.	1.0	90
5	A commitment-based reference ontology for services. Information Systems, 2015, 54, 263-288.	2.4	75
6	An ontological approach to domain engineering. , 2002, , .		70
7	On the General Ontological Foundations of Conceptual Modeling. Lecture Notes in Computer Science, 2002, , 65-78.	1.0	58
8	An Ontologically Well-Founded Profile for UML Conceptual Models. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2004, , 112-126.	0.2	55
9	Using the Unified Foundational Ontology (UFO) as a Foundation for General Conceptual Modeling Languages. , 2010, , 175-196.		54
10	Comparing traditional conceptual modeling with ontology-driven conceptual modeling: An empirical study. Information Systems, 2019, 81, 92-103.	2.4	52
11	Ontology, Ontologies and the “œœ” of FAIR. Data Intelligence, 2020, 2, 181-191.	0.8	46
12	From reference ontologies to ontology patterns and back. Data and Knowledge Engineering, 2017, 109, 41-69.	2.1	42
13	Multi-level ontology-based conceptual modeling. Data and Knowledge Engineering, 2017, 109, 3-24.	2.1	42
14	Using an ECG reference ontology for semantic interoperability of ECG data. Journal of Biomedical Informatics, 2011, 44, 126-136.	2.5	41
15	Ontological foundations for conceptual modelling. Applied Ontology, 2008, 3, 1-12.	1.0	40
16	The Common Ontology of Value and Risk. Lecture Notes in Computer Science, 2018, , 121-135.	1.0	39
17	An Ontology-Based Semantics for the Motivation Extension to ArchiMate. , 2011, , .		38
18	An Ontology-Based Approach for Evaluating the Domain Appropriateness and Comprehensibility Appropriateness of Modeling Languages. Lecture Notes in Computer Science, 2005, , 691-705.	1.0	38

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19	“We Need to Discuss the Relationship” Revisiting Relationships as Modeling Constructs. Lecture Notes in Computer Science, 2015, , 279-294.	1.0	38
20	A Model-Based Tool for Conceptual Modeling and Domain Ontology Engineering in OntoUML. Lecture Notes in Business Information Processing, 2009, , 528-538.	0.8	38
21	UFO: Unified Foundational Ontology. Applied Ontology, 2022, 17, 167-210.	1.0	37
22	Situations in Conceptual Modeling of Context. , 2006, , .		33
23	Transforming OntoUML into Alloy: towards conceptual model validation using a lightweight formal method. Innovations in Systems and Software Engineering, 2010, 6, 55-63.	1.6	33
24	Towards Ontological Foundations for UML Conceptual Models. Lecture Notes in Computer Science, 2002, , 1100-1117.	1.0	33
25	Theoretical foundations and engineering tools for building ontologies as reference conceptual models. Semantic Web, 2010, 1, 3-10.	1.1	32
26	An Ontology-Based Well-Founded Proposal for Modeling Resources and Capabilities in ArchiMate. , 2013, , .		32
27	Ontological Patterns, Anti-Patterns and Pattern Languages for Next-Generation Conceptual Modeling. Lecture Notes in Computer Science, 2014, , 13-27.	1.0	32
28	Endurant Types in Ontology-Driven Conceptual Modeling: Towards OntoUML 2.0. Lecture Notes in Computer Science, 2018, , 136-150.	1.0	31
29	Towards an ontological foundation of discrete event simulation. , 2010, , .		30
30	OntoUML Lightweight Editor: A Model-Based Environment to Build, Evaluate and Implement Reference Ontologies. , 2015, , .		30
31	Ontological Considerations About the Representation of Events and Endurants in Business Models. Lecture Notes in Computer Science, 2016, , 20-36.	1.0	30
32	Applying a Multi-Level Modeling Theory to Assess Taxonomic Hierarchies in Wikidata. , 2016, , .		30
33	Relationships and Events: Towards a General Theory of Reification and Truthmaking. Lecture Notes in Computer Science, 2016, , 237-249.	1.0	29
34	An ontology-based semantic foundation for ARIS EPCs. , 2010, , .		28
35	SEON: A Software Engineering Ontology Network. Lecture Notes in Computer Science, 2016, , 527-542.	1.0	27
36	The Role of Foundational Ontologies for Domain Ontology Engineering. International Journal of Information System Modeling and Design, 2010, 1, 1-22.	0.9	26

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37	An ontology-based analysis and semantics for organizational structure modeling in the ARIS method. Information Systems, 2013, 38, 690-708.	2.4	26
38	Extending the Foundations of Ontology-Based Conceptual Modeling with a Multi-level Theory. Lecture Notes in Computer Science, 2015, , 119-133.	1.0	26
39	Events as Entities in Ontology-Driven Conceptual Modeling. Lecture Notes in Computer Science, 2019, , 469-483.	1.0	26
40	Modal Aspects of Object Types and Part-Whole Relations and the de re/de dicto Distinction. Lecture Notes in Computer Science, 2007, , 5-20.	1.0	26
41	Requirements engineering based on business process models: A case study. , 2009, , .		25
42	Towards a Commitment-Based Reference Ontology for Services. , 2013, , .		25
43	In Defense of a Trope-Based Ontology for Conceptual Modeling: An Example with the Foundations of Attributes, Weak Entities and Datatypes. Lecture Notes in Computer Science, 2006, , 112-125.	1.0	25
44	The role of Foundational Ontologies for Domain Ontology Engineering: a case study in the Software Process Domain. IEEE Latin America Transactions, 2008, 6, 244-251.	1.2	24
45	Applying and extending a semantic foundation for role-related concepts in enterprise modelling. Enterprise Information Systems, 2009, 3, 253-277.	3.3	23
46	Ontological anti-patterns: empirically uncovered error-prone structures in ontology-driven conceptual models. Data and Knowledge Engineering, 2015, 99, 72-104.	2.1	23
47	From an Ontology of Service Contracts to Contract Modeling in Enterprise Architecture. , 2017, , .		23
48	An Ontological Analysis of Value Propositions. , 2017, , .		23
49	Whatâ€™s in a Relationship: An Ontological Analysis. Lecture Notes in Computer Science, 2008, , 83-97.	1.0	23
50	An ontological analysis of the notion of community in the RM-ODP enterprise language. Computer Standards and Interfaces, 2013, 35, 257-268.	3.8	22
51	Non-functional requirements as qualities, with a spice of ontology. , 2014, , .		22
52	Ontology Engineering by Combining Ontology Patterns. Lecture Notes in Computer Science, 2015, , 173-186.	1.0	22
53	Can BPMN Be Used for Making Simulation Models?. Lecture Notes in Business Information Processing, 2011, , 100-115.	0.8	21
54	An ontology pattern language for service modeling. , 2016, , .		20

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55	Representing a reference foundational ontology of events in SROIQ. <i>Applied Ontology</i> , 2019, 14, 293-334.	1.0	20
56	Types and taxonomic structures in conceptual modeling: A novel ontological theory and engineering support. <i>Data and Knowledge Engineering</i> , 2021, 134, 101891.	2.1	20
57	On the Foundations of UML as an Ontology Representation Language. <i>Lecture Notes in Computer Science</i> , 2004, , 47-62.	1.0	19
58	On the Representation of Temporally Changing Information in OWL , 2010, , .		19
59	Agent Roles, Qua Individuals and the Counting Problem. <i>Lecture Notes in Computer Science</i> , 2006, , 143-160.	1.0	19
60	Conceptual Modeling of Legal Relations. <i>Lecture Notes in Computer Science</i> , 2018, , 169-183.	1.0	19
61	Some Applications of a Unified Foundational Ontology in Business Modeling. , 2005, , 345-367.		19
62	Using a trope-based foundational ontology for bridging different areas of concern in ontology-driven conceptual modeling. <i>Science of Computer Programming</i> , 2014, 96, 417-443.	1.5	18
63	Relations in Ontology-Driven Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2019, , 28-42.	1.0	18
64	From Stakeholder Requirements to Formal Specifications Through Refinement. <i>Lecture Notes in Computer Science</i> , 2015, , 164-180.	1.0	18
65	Ontological Foundations for Conceptual Part-Whole Relations: The Case of Collectives and Their Parts. <i>Lecture Notes in Computer Science</i> , 2011, , 138-153.	1.0	17
66	Ontological foundations for software requirements with a focus on requirementsÂruntime. <i>Applied Ontology</i> , 2018, 13, 73-105.	1.0	16
67	Ontology-Based Model Abstraction. , 2019, , .		16
68	Service contract modeling in Enterprise Architecture: An ontology-based approach. <i>Information Systems</i> , 2021, 101, 101454.	2.4	16
69	A Method for Eliciting Goals for Business Process Models based on Non-Functional Requirements Catalogues. <i>International Journal of Information System Modeling and Design</i> , 2011, 2, 1-18.	0.9	15
70	Towards an enterprise ontology pattern language. , 2014, , .		14
71	Design Patterns and Inductive Modeling Rules to Support the Construction of Ontologically Well-Founded Conceptual Models in OntoUML. <i>Lecture Notes in Computer Science</i> , 2011, , 402-413.	1.0	14
72	Formal Semantics and Ontological Analysis for Understanding Subsetting, Specialization and Redefinition of Associations in UML. <i>Lecture Notes in Computer Science</i> , 2011, , 189-203.	1.0	14

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73	Towards an Ontology of Software Defects, Errors and Failures. Lecture Notes in Computer Science, 2018, , 349-362.	1.0	13
74	Ontological Foundations for Conceptual Modeling with Applications. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 695-696.	0.2	13
75	Towards an ontological foundation of agent-based simulation. , 2011, , .		12
76	An ontological foundation for conceptual modeling datatypes based on semantic reference spaces. , 2013, , .		12
77	Towards an Ontological Account of Agent-Oriented Goals. , 2006, , 148-164.		12
78	Ontological Unpacking as Explanation: The Case of the Viral Conceptual Model. Lecture Notes in Computer Science, 2021, , 356-366.	1.0	12
79	GSO: Designing a well-founded service ontology to support dynamic service discovery and composition. , 2009, , .		11
80	Tutorial: Conceptual simulation modeling with Onto-UML. , 2012, , .		11
81	Applying a foundational ontology to analyze means-end links in the i<sup>∗</sup> framework. , 2012, , .		11
82	Dispositions and causal laws as the ontological foundation of transition rules in simulation models. , 2013, , .		11
83	Breaking into pieces: An ontological approach to conceptual model complexity management. , 2018, , .		11
84	A Pattern Language for Value Modeling in ArchiMate. Lecture Notes in Computer Science, 2019, , 230-245.	1.0	11
85	Multi-level conceptual modeling: Theory, language and application. Data and Knowledge Engineering, 2021, 134, 101894.	2.1	11
86	Ontology-Based Modeling and Analysis of Trustworthiness Requirements: Preliminary Results. Lecture Notes in Computer Science, 2020, , 342-352.	1.0	11
87	Foundational ontologies meet ontology matching: A survey. Semantic Web, 2022, 13, 685-704.	1.1	11
88	ECG data provisioning for telehomecare monitoring. , 2008, , .		10
89	Image Schema Combinations and Complex Events. KI - Kunstliche Intelligenz, 2019, 33, 279-291.	2.2	10
90	Towards semantic software engineering environments. , 2002, , .		9

#	ARTICLE	IF	CITATIONS
91	Ontological evaluation of the ITU-T Recommendation G.805. , 2011, , .		9
92	Formal Definition of a General Ontology Pattern Language using a Graph Grammar. , 0, , .		9
93	An ontological analysis of software system anomalies and their associated risks. Data and Knowledge Engineering, 2021, 134, 101892.	2.1	9
94	Expressive Multi-level Modeling for the Semantic Web. Lecture Notes in Computer Science, 2016, , 53-69.	1.0	9
95	A Semantic Foundation for Role-Related Concepts in Enterprise Modelling. , 2008, , .		8
96	An ontology-based application in heart electrophysiology. , 2009, , .		8
97	An ISO-based software process ontology pattern language and its application for harmonizing standards. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2015, 15, 27-40.	0.5	8
98	Vocabularies, ontologies, and rules for enterprise and business process modeling and management. Information Systems, 2010, 35, 375-378.	2.4	7
99	Towards an Ontology of Scenes and Situations. , 2018, , .		7
100	Automated conceptual model clustering: a relator-centric approach. Software and Systems Modeling, 2022, 21, 1363-1387.	2.2	7
101	Transformation of Ontology-Based Conceptual Models into Relational Schemas. Lecture Notes in Computer Science, 2020, , 315-330.	1.0	7
102	Modeling Trust in Enterprise Architecture: A Pattern Language for ArchiMate. Lecture Notes in Business Information Processing, 2020, , 73-89.	0.8	7
103	PoN-S: A Systematic Approach for Applying the Physics of Notation (PoN). Lecture Notes in Business Information Processing, 2016, , 432-447.	0.8	7
104	Ontological Meta-properties of Derived Object Types. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 318-333.	0.2	7
105	A service architecture for sensor data provisioning for context-aware mobile applications. , 2008, , .		6
106	Conceptual simulation modeling with Onto-UML advanced tutorial. , 2012, , .		6
107	CASTING THE LIGHT OF THE THEORY OF OPPOSITION ONTO HOHFELD'S FUNDAMENTAL LEGAL CONCEPTS. Legal Theory, 2021, 27, 2-35.	0.3	6
108	Foundational ontologies, ontology-driven conceptual modeling, and their multiple benefits to data mining. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1408.	4.6	6

#	ARTICLE	IF	CITATIONS
109	A Core Ontology for Economic Exchanges. Lecture Notes in Computer Science, 2020, , 364-374.	1.0	6
110	Trustworthiness Requirements: The Pix Case Study. Lecture Notes in Computer Science, 2021, , 257-267.	1.0	6
111	Towards Automated Support for Conceptual Model Diagnosis and Repair. Lecture Notes in Computer Science, 2020, , 15-25.	1.0	6
112	Understanding and Modeling Prevention. Lecture Notes in Business Information Processing, 2022, , 389-405.	0.8	6
113	An Ontology-Based Semantic Foundation for Organizational Structure Modeling in the ARIS Method. , 2010, , .		5
114	On Domain Conceptualization. Lecture Notes in Business Information Processing, 2021, , 49-69.	0.8	5
115	Towards a Service Ontology Pattern Language. Lecture Notes in Computer Science, 2015, , 187-195.	1.0	5
116	The Design of a Core Value Ontology Using Ontology Patterns. Lecture Notes in Computer Science, 2016, , 183-193.	1.0	5
117	Events, their names, and their synchronic structure. Applied Ontology, 2022, , 1-35.	1.0	5
118	Support for Domain Constraints in the Validation of Ontologically Well-Founded Conceptual Models. Lecture Notes in Business Information Processing, 2014, , 302-316.	0.8	4
119	Exploring the Role of Enterprise Architecture Models in the Modularization of an Ontology Network: A Case in the Public Security Domain. , 2017, , .		4
120	Ontological Analysis and Redesign of Risk Modeling in ArchiMate. , 2018, , .		4
121	An Ontology-Based Diagnosis of Mainstream Service Modeling Languages. , 2019, , .		4
122	Finding reusable structured resources for the integration of environmental research data. Environmental Modelling and Software, 2020, 133, 104813.	1.9	4
123	On Domain Modelling and Requisite Variety. Lecture Notes in Business Information Processing, 2020, , 186-196.	0.8	4
124	Software as a Social Artifact: A Management and Evolution Perspective. Lecture Notes in Computer Science, 2014, , 321-334.	1.0	4
125	A Reference Ontology of Money and Virtual Currencies. Lecture Notes in Business Information Processing, 2020, , 228-243.	0.8	4
126	Eliciting Ethicality Requirements Using the Ontology-Based Requirements Engineering Method. Lecture Notes in Business Information Processing, 2022, , 221-236.	0.8	4

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127	On the Foundation for Roles in RM-ODP: Contributions from Conceptual Modelling. , 2007, , .		3
128	A Linguistic Approach to Conceptual Modeling with Semantic Types and OntoUML. , 2010, , .		3
129	Towards an ontology pattern language for harmonizing software process related ISO standards. , 2015, , .		3
130	How software changes the world: The role of assumptions. , 2016, , .		3
131	Foundational Choices in Enterprise Architecture: The Case of Capability in Defense Frameworks. , 2019, , .		3
132	How FAIR are Security Core Ontologies? A Systematic Mapping Study. Lecture Notes in Business Information Processing, 2021, , 107-123.	0.8	3
133	Revisiting the DEMO Transaction Pattern with the Unified Foundational Ontology (UFO). Lecture Notes in Business Information Processing, 2017, , 181-195.	0.8	3
134	A Semantic Oriented Method for Conceptual Data Modeling in OntoUML Based on Linguistic Concepts. Lecture Notes in Computer Science, 2011, , 486-494.	1.0	3
135	Fifty Shades of Green: How Informative is a Compliant Process Trace?. Lecture Notes in Computer Science, 2019, , 611-626.	1.0	3
136	On the Goal Domain in the RM-ODP Enterprise Language: An Initial Appraisal Based on a Foundational Ontology. , 2010, , .		2
137	Preserving Multi-level Semantics in Conventional Two-Level Modeling Techniques. , 2019, , .		2
138	On the Application of Ontological Patterns for Conceptual Modeling in Multidimensional Models. Lecture Notes in Computer Science, 2019, , 215-231.	1.0	2
139	Relational Contexts and Conceptual Model Clustering. Lecture Notes in Business Information Processing, 2020, , 211-227.	0.8	2
140	Forward Engineering Relational Schemas and High-Level Data Access from Conceptual Models. Lecture Notes in Computer Science, 2021, , 133-148.	1.0	2
141	â€œIt a Fleet or a Collection of Ships?â€ Ontological Anti-patterns in the Modeling of Part-Whole Relations. Lecture Notes in Computer Science, 2017, , 28-41.	1.0	2
142	Mind the Gap!: Learning Missing Constraints from Annotated Conceptual Model Simulations. Lecture Notes in Business Information Processing, 2021, , 64-79.	0.8	2
143	Ontologically correct taxonomies by construction. Data and Knowledge Engineering, 2022, 139, 102012.	2.1	2
144	Modeling the Emergence of Value and Risk in Game Theoretical Approaches. Lecture Notes in Business Information Processing, 2021, , 70-91.	0.8	1

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145	A Common Foundational Theory for Bridging Two Levels in Ontology-Driven Conceptual Modeling. Lecture Notes in Computer Science, 2013, , 286-310.	1.0	1
146	Engineering Requirements with Desiree: An Empirical Evaluation. Lecture Notes in Computer Science, 2016, , 221-238.	1.0	1
147	Towards an Ontology Network in Finance and Economics. Lecture Notes in Business Information Processing, 2022, , 42-57.	0.8	1
148	Message from the VORTE 2011 Workshop Chairs. , 2011, , .		0
149	Message from the VORTE 2017 Workshop Chairs. , 2017, , .		0
150	Building Correct Taxonomies with a Well-Founded Graph Grammar. Lecture Notes in Business Information Processing, 2021, , 506-522.	0.8	0
151	Designing Web Information Systems for a Framework-Based Construction. Advances in Database Research Series, 2009, , 204-238.	0.1	0
152	Conceptual Modeling: the Linguistic Approach. Revista De Informatica Teorica E Aplicada, 2010, 16, 103-104.	0.2	0
153	Ricardo de Almeida Falbo (1964–2020). Applied Ontology, 2020, 15, 241-243.	1.0	0
154	Conceptual model visual simulation and the inductive learning of missing domain constraints. Data and Knowledge Engineering, 2022, , 102040.	2.1	0