

Giancarlo Guizzardi

List of Publications by Year in descending order

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154
papers

3,079
citations

218677
26
h-index

276875
41
g-index

172
all docs

172
docs citations

172
times ranked

1405
citing authors

1	FAIR Principles: Interpretations and Implementation Considerations. Data Intelligence, 2020, 2, 10-29.	1.5	149
2	Towards ontological foundations for conceptual modeling: The unified foundational ontology (UFO) story. Applied Ontology, 2015, 10, 259-271.	2.0	134
3	Modeling resources and capabilities in enterprise architecture: A well-founded ontology-based proposal for ArchiMate. Information Systems, 2015, 54, 235-262.	3.6	91
4	Towards Ontological Foundations for the Conceptual Modeling of Events. Lecture Notes in Computer Science, 2013, , 327-341.	1.3	90
5	A commitment-based reference ontology for services. Information Systems, 2015, 54, 263-288.	3.6	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.	1.3	58
8	An Ontologically Well-Founded Profile for UML Conceptual Models. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2004, , 112-126.	0.3	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.	3.6	52
11	Ontology, Ontologies and the “œ” of FAIR. Data Intelligence, 2020, 2, 181-191.	1.5	46
12	From reference ontologies to ontology patterns and back. Data and Knowledge Engineering, 2017, 109, 41-69.	3.4	42
13	Multi-level ontology-based conceptual modeling. Data and Knowledge Engineering, 2017, 109, 3-24.	3.4	42
14	Using an ECG reference ontology for semantic interoperability of ECG data. Journal of Biomedical Informatics, 2011, 44, 126-136.	4.3	41
15	Ontological foundations for conceptual modelling. Applied Ontology, 2008, 3, 1-12.	2.0	40
16	The Common Ontology of Value and Risk. Lecture Notes in Computer Science, 2018, , 121-135.	1.3	39
17	An Ontology-Based Semantics for the Motivation Extension to ArchiMate. , 2011, , .		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.	1.3	38
20	A Model-Based Tool for Conceptual Modeling and Domain Ontology Engineering in OntoUML. Lecture Notes in Business Information Processing, 2009, , 528-538.	1.0	38
21	UFO: Unified Foundational Ontology. Applied Ontology, 2022, 17, 167-210.	2.0	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.	2.1	33
24	Towards Ontological Foundations for UML Conceptual Models. Lecture Notes in Computer Science, 2002, , 1100-1117.	1.3	33
25	Theoretical foundations and engineering tools for building ontologies as reference conceptual models. Semantic Web, 2010, 1, 3-10.	1.9	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.	1.3	32
28	Endurant Types in Ontology-Driven Conceptual Modeling: Towards OntoUML 2.0. Lecture Notes in Computer Science, 2018, , 136-150.	1.3	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.	1.3	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.	1.3	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.	1.3	27
36	The Role of Foundational Ontologies for Domain Ontology Engineering. International Journal of Information System Modeling and Design, 2010, 1, 1-22.	1.1	26

#	ARTICLE	IF	CITATIONS
37	An ontology-based analysis and semantics for organizational structure modeling in the ARIS method. Information Systems, 2013, 38, 690-708.	3.6	26
38	Extending the Foundations of Ontology-Based Conceptual Modeling with a Multi-level Theory. Lecture Notes in Computer Science, 2015, , 119-133.	1.3	26
39	Events as Entities in Ontology-Driven Conceptual Modeling. Lecture Notes in Computer Science, 2019, , 469-483.	1.3	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.	1.3	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.	1.3	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.	1.6	24
45	Applying and extending a semantic foundation for role-related concepts in enterprise modelling. Enterprise Information Systems, 2009, 3, 253-277.	4.7	23
46	Ontological anti-patterns: empirically uncovered error-prone structures in ontology-driven conceptual models. Data and Knowledge Engineering, 2015, 99, 72-104.	3.4	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.	1.3	23
50	An ontological analysis of the notion of community in the RM-ODP enterprise language. Computer Standards and Interfaces, 2013, 35, 257-268.	5.4	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.	1.3	22
53	Can BPMN Be Used for Making Simulation Models?. Lecture Notes in Business Information Processing, 2011, , 100-115.	1.0	21
54	An ontology pattern language for service modeling. , 2016, , .		20

#	ARTICLE	IF	CITATIONS
55	Representing a reference foundational ontology of events in SROIQ. Applied Ontology, 2019, 14, 293-334.	2.0	20
56	Types and taxonomic structures in conceptual modeling: A novel ontological theory and engineering support. Data and Knowledge Engineering, 2021, 134, 101891.	3.4	20
57	On the Foundations of UML as an Ontology Representation Language. Lecture Notes in Computer Science, 2004, , 47-62.	1.3	19
58	On the Representation of Temporally Changing Information in OWL , 2010, , .		19
59	Agent Roles, Qua Individuals and the Counting Problem. Lecture Notes in Computer Science, 2006, , 143-160.	1.3	19
60	Conceptual Modeling of Legal Relations. Lecture Notes in Computer Science, 2018, , 169-183.	1.3	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. Science of Computer Programming, 2014, 96, 417-443.	1.9	18
63	Relations in Ontology-Driven Conceptual Modeling. Lecture Notes in Computer Science, 2019, , 28-42.	1.3	18
64	From Stakeholder Requirements to Formal Specifications Through Refinement. Lecture Notes in Computer Science, 2015, , 164-180.	1.3	18
65	Ontological Foundations for Conceptual Part-Whole Relations: The Case of Collectives and Their Parts. Lecture Notes in Computer Science, 2011, , 138-153.	1.3	17
66	Ontological foundations for software requirements with a focus on requirementsÂruntime. Applied Ontology, 2018, 13, 73-105.	2.0	16
67	Ontology-Based Model Abstraction. , 2019, , .		16
68	Service contract modeling in Enterprise Architecture: An ontology-based approach. Information Systems, 2021, 101, 101454.	3.6	16
69	A Method for Eliciting Goals for Business Process Models based on Non-Functional Requirements Catalogues. International Journal of Information System Modeling and Design, 2011, 2, 1-18.	1.1	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. Lecture Notes in Computer Science, 2011, , 402-413.	1.3	14
72	Formal Semantics and Ontological Analysis for Understanding Subsetting, Specialization and Redefinition of Associations in UML. Lecture Notes in Computer Science, 2011, , 189-203.	1.3	14

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73	Towards an Ontology of Software Defects, Errors and Failures. Lecture Notes in Computer Science, 2018, , 349-362.	1.3	13
74	Ontological Foundations for Conceptual Modeling with Applications. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 695-696.	0.3	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.	1.3	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>g&t∗&t;/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.	1.3	11
85	Multi-level conceptual modeling: Theory, language and application. Data and Knowledge Engineering, 2021, 134, 101894.	3.4	11
86	Ontology-Based Modeling and Analysis of Trustworthiness Requirements: Preliminary Results. Lecture Notes in Computer Science, 2020, , 342-352.	1.3	11
87	Foundational ontologies meet ontology matching: A survey. Semantic Web, 2022, 13, 685-704.	1.9	11
88	ECG data provisioning for telehomecare monitoring. , 2008, , .		10
89	Image Schema Combinations and Complex Events. KI - Kunstliche Intelligenz, 2019, 33, 279-291.	3.2	10
90	Towards semantic software engineering environments. , 2002, , .		9

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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.	3.4	9
94	Expressive Multi-level Modeling for the Semantic Web. Lecture Notes in Computer Science, 2016, , 53-69.	1.3	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.	0.9	8
98	Vocabularies, ontologies, and rules for enterprise and business process modeling and management. Information Systems, 2010, 35, 375-378.	3.6	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.	2.7	7
101	Transformation of Ontology-Based Conceptual Models into Relational Schemas. Lecture Notes in Computer Science, 2020, , 315-330.	1.3	7
102	Modeling Trust in Enterprise Architecture: A Pattern Language for ArchiMate. Lecture Notes in Business Information Processing, 2020, , 73-89.	1.0	7
103	PoN-S: A Systematic Approach for Applying the Physics of Notation (PoN). Lecture Notes in Business Information Processing, 2016, , 432-447.	1.0	7
104	Ontological Meta-properties of Derived Object Types. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 318-333.	0.3	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.	0.2	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.	6.8	6

#	ARTICLE	IF	CITATIONS
109	A Core Ontology for Economic Exchanges. Lecture Notes in Computer Science, 2020, , 364-374.	1.3	6
110	Trustworthiness Requirements: The Pix Case Study. Lecture Notes in Computer Science, 2021, , 257-267.	1.3	6
111	Towards Automated Support for Conceptual Model Diagnosis and Repair. Lecture Notes in Computer Science, 2020, , 15-25.	1.3	6
112	Understanding and Modeling Prevention. Lecture Notes in Business Information Processing, 2022, , 389-405.	1.0	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.	1.0	5
115	Towards a Service Ontology Pattern Language. Lecture Notes in Computer Science, 2015, , 187-195.	1.3	5
116	The Design of a Core Value Ontology Using Ontology Patterns. Lecture Notes in Computer Science, 2016, , 183-193.	1.3	5
117	Events, their names, and their synchronic structure. Applied Ontology, 2022, , 1-35.	2.0	5
118	Support for Domain Constraints in the Validation of Ontologically Well-Founded Conceptual Models. Lecture Notes in Business Information Processing, 2014, , 302-316.	1.0	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.	4.5	4
123	On Domain Modelling and Requisite Variety. Lecture Notes in Business Information Processing, 2020, , 186-196.	1.0	4
124	Software as a Social Artifact: A Management and Evolution Perspective. Lecture Notes in Computer Science, 2014, , 321-334.	1.3	4
125	A Reference Ontology of Money and Virtual Currencies. Lecture Notes in Business Information Processing, 2020, , 228-243.	1.0	4
126	Eliciting Ethicality Requirements Using the Ontology-Based Requirements Engineering Method. Lecture Notes in Business Information Processing, 2022, , 221-236.	1.0	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.	1.0	3
133	Revisiting the DEMO Transaction Pattern with the Unified Foundational Ontology (UFO). Lecture Notes in Business Information Processing, 2017, , 181-195.	1.0	3
134	A Semantic Oriented Method for Conceptual Data Modeling in OntoUML Based on Linguistic Concepts. Lecture Notes in Computer Science, 2011, , 486-494.	1.3	3
135	Fifty Shades of Green: How Informative is a Compliant Process Trace?. Lecture Notes in Computer Science, 2019, , 611-626.	1.3	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.	1.3	2
139	Relational Contexts and Conceptual Model Clustering. Lecture Notes in Business Information Processing, 2020, , 211-227.	1.0	2
140	Forward Engineering Relational Schemas and High-Level Data Access from Conceptual Models. Lecture Notes in Computer Science, 2021, , 133-148.	1.3	2
141	â€œIs It 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.	1.3	2
142	Mind the Gap!: Learning Missing Constraints from Annotated Conceptual Model Simulations. Lecture Notes in Business Information Processing, 2021, , 64-79.	1.0	2
143	Ontologically correct taxonomies by construction. Data and Knowledge Engineering, 2022, 139, 102012.	3.4	2
144	Modeling the Emergence of Value and Risk in Game Theoretical Approaches. Lecture Notes in Business Information Processing, 2021, , 70-91.	1.0	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.	1.3	1
146	Engineering Requirements with Desiree: An Empirical Evaluation. Lecture Notes in Computer Science, 2016, , 221-238.	1.3	1
147	Towards anÂOntology Network inÂFinance andÂEconomics. Lecture Notes in Business Information Processing, 2022, , 42-57.	1.0	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 aÂWell-Founded Graph Grammar. Lecture Notes in Business Information Processing, 2021, , 506-522.	1.0	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 (1964â€“2020). Applied Ontology, 2020, 15, 241-243.	2.0	0
154	Conceptual model visual simulation and the inductive learning of missing domain constraints. Data and Knowledge Engineering, 2022, , 102040.	3.4	0