

Giancarlo Guizzardi

List of Publications by Citations

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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.

166
papers

2,088
citations

24
h-index

36
g-index

172
ext. papers

2,421
ext. citations

1.2
avg, IF

5.62
L-index

#	Paper	IF	Citations
166	Towards ontological foundations for conceptual modeling: The unified foundational ontology (UFO) story. <i>Applied Ontology</i> , 2015 , 10, 259-271	1.4	98
165	Towards Ontological Foundations for the Conceptual Modeling of Events. <i>Lecture Notes in Computer Science</i> , 2013 , 327-341	0.9	74
164	Modeling resources and capabilities in enterprise architecture: A well-founded ontology-based proposal for ArchiMate. <i>Information Systems</i> , 2015 , 54, 235-262	2.7	68
163	FAIR Principles: Interpretations and Implementation Considerations. <i>Data Intelligence</i> , 2020 , 2, 10-29	3	66
162	A commitment-based reference ontology for services. <i>Information Systems</i> , 2015 , 54, 263-288	2.7	53
161	On the General Ontological Foundations of Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2002 , 65-78	0.9	41
160	Using the Unified Foundational Ontology (UFO) as a Foundation for General Conceptual Modeling Languages 2010 , 175-196		40
159	An Ontologically Well-Founded Profile for UML Conceptual Models. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2004 , 112-126	0.3	38
158	Using an ECG reference ontology for semantic interoperability of ECG data. <i>Journal of Biomedical Informatics</i> , 2011 , 44, 126-36	10.2	34
157	Multi-level ontology-based conceptual modeling. <i>Data and Knowledge Engineering</i> , 2017 , 109, 3-24	1.5	33
156	Comparing traditional conceptual modeling with ontology-driven conceptual modeling: An empirical study. <i>Information Systems</i> , 2019 , 81, 92-103	2.7	32
155	An Ontology-Based Semantics for the Motivation Extension to ArchiMate 2011 ,		31
154	An ontological approach to domain engineering 2002 ,		31
153	We Need to Discuss the Relationship Revisiting Relationships as Modeling Constructs. <i>Lecture Notes in Computer Science</i> , 2015 , 279-294	0.9	31
152	The Common Ontology of Value and Risk. <i>Lecture Notes in Computer Science</i> , 2018 , 121-135	0.9	30
151	From reference ontologies to ontology patterns and back. <i>Data and Knowledge Engineering</i> , 2017 , 109, 41-69	1.5	29
150	Ontological foundations for conceptual modelling. <i>Applied Ontology</i> , 2008 , 3, 1-12	1.4	28

149	Relationships and Events: Towards a General Theory of Reification and Truthmaking. <i>Lecture Notes in Computer Science</i> , 2016 , 237-249	0.9	27
148	An Ontology-Based Well-Founded Proposal for Modeling Resources and Capabilities in ArchiMate 2013 ,		26
147	Towards an ontological foundation of discrete event simulation 2010 ,		25
146	Ontological Patterns, Anti-Patterns and Pattern Languages for Next-Generation Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2014 , 13-27	0.9	25
145	Ontological Considerations About the Representation of Events and Endurants in Business Models. <i>Lecture Notes in Computer Science</i> , 2016 , 20-36	0.9	25
144	Transforming OntoUML into Alloy: towards conceptual model validation using a lightweight formal method. <i>Innovations in Systems and Software Engineering</i> , 2010 , 6, 55-63	1.1	24
143	Situations in Conceptual Modeling of Context 2006 ,		24
142	A Model-Based Tool for Conceptual Modeling and Domain Ontology Engineering in OntoUML. <i>Lecture Notes in Business Information Processing</i> , 2009 , 528-538	0.6	24
141	Endurant Types in Ontology-Driven Conceptual Modeling: Towards OntoUML 2.0. <i>Lecture Notes in Computer Science</i> , 2018 , 136-150	0.9	23
140	An ontology-based semantic foundation for ARIS EPCs 2010 ,		22
139	The role of Foundational Ontologies for Domain Ontology Engineering: a case study in the Software Process Domain. <i>IEEE Latin America Transactions</i> , 2008 , 6, 244-251	0.7	22
138	An Ontology-Based Approach for Evaluating the Domain Appropriateness and Comprehensibility Appropriateness of Modeling Languages. <i>Lecture Notes in Computer Science</i> , 2005 , 691-705	0.9	22
137	An ontology-based analysis and semantics for organizational structure modeling in the ARIS method. <i>Information Systems</i> , 2013 , 38, 690-708	2.7	21
136	The Role of Foundational Ontologies for Domain Ontology Engineering. <i>International Journal of Information System Modeling and Design</i> , 2010 , 1, 1-22	0.8	21
135	Applying and extending a semantic foundation for role-related concepts in enterprise modelling. <i>Enterprise Information Systems</i> , 2009 , 3, 253-277	3.5	21
134	Ontology, Ontologies and the \mathbb{B} f FAIR. <i>Data Intelligence</i> , 2020 , 2, 181-191	3	21
133	Theoretical foundations and engineering tools for building ontologies as reference conceptual models. <i>Semantic Web</i> , 2010 , 1, 3-10	2.4	20
132	Towards Ontological Foundations for UML Conceptual Models. <i>Lecture Notes in Computer Science</i> , 2002 , 1100-1117	0.9	20

131	Ontological anti-patterns: empirically uncovered error-prone structures in ontology-driven conceptual models. <i>Data and Knowledge Engineering</i> , 2015 , 99, 72-104	1.5	19
130	Extending the Foundations of Ontology-Based Conceptual Modeling with a Multi-level Theory. <i>Lecture Notes in Computer Science</i> , 2015 , 119-133	0.9	19
129	An Ontological Analysis of Value Propositions 2017 ,		19
128	Towards a Commitment-Based Reference Ontology for Services 2013 ,		19
127	Ontology Engineering by Combining Ontology Patterns. <i>Lecture Notes in Computer Science</i> , 2015 , 173-186	0.9	19
126	What's in a Relationship: An Ontological Analysis. <i>Lecture Notes in Computer Science</i> , 2008 , 83-97	0.9	19
125	The Problem of Transitivity of Part-Whole Relations in Conceptual Modeling Revisited. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2009 , 94-109	0.3	19
124	Non-functional requirements as qualities, with a spice of ontology 2014 ,		18
123	From an Ontology of Service Contracts to Contract Modeling in Enterprise Architecture 2017 ,		18
122	On the Representation of Temporally Changing Information in OWL 2010 ,		18
121	Some Applications of a Unified Foundational Ontology in Business Modeling 2005 , 345-367		18
120	Can BPMN Be Used for Making Simulation Models?. <i>Lecture Notes in Business Information Processing</i> , 2011 , 100-115	0.6	18
119	Applying a Multi-Level Modeling Theory to Assess Taxonomic Hierarchies in Wikidata 2016 ,		17
118	Events as Entities in Ontology-Driven Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2019 , 469-483	0.9	17
117	An ontology pattern language for service modeling 2016 ,		17
116	In Defense of a Trope-Based Ontology for Conceptual Modeling: An Example with the Foundations of Attributes, Weak Entities and Datatypes. <i>Lecture Notes in Computer Science</i> , 2006 , 112-125	0.9	17
115	OntoUML Lightweight Editor: A Model-Based Environment to Build, Evaluate and Implement Reference Ontologies 2015 ,		16
114	An ontological analysis of the notion of community in the RM-ODP enterprise language. <i>Computer Standards and Interfaces</i> , 2013 , 35, 257-268	3.5	16

113	Requirements engineering based on business process models: A case study 2009 ,		16
112	Modal Aspects of Object Types and Part-Whole Relations and the de re/de dicto Distinction. <i>Lecture Notes in Computer Science</i> , 2007 , 5-20	0.9	16
111	Using a Well-Founded Multi-level Theory to Support the Analysis and Representation of the Powertype Pattern in Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2016 , 309-324	0.9	15
110	Agent Roles, Qua Individuals and the Counting Problem. <i>Lecture Notes in Computer Science</i> , 2006 , 143-160	0.9	15
109	Representing a reference foundational ontology of events in SROIQ. <i>Applied Ontology</i> , 2019 , 14, 293-334	1.4	14
108	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	1.1	14
107	SEON: A Software Engineering Ontology Network. <i>Lecture Notes in Computer Science</i> , 2016 , 527-542	0.9	14
106	Towards an enterprise ontology pattern language 2014 ,		13
105	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	0.9	13
104	Towards an ontological foundation of agent-based simulation 2011 ,		12
103	Relations in Ontology-Driven Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2019 , 28-42	0.9	12
102	Towards a Reference Ontology of Trust. <i>Lecture Notes in Computer Science</i> , 2019 , 3-21	0.9	12
101	From Stakeholder Requirements to Formal Specifications Through Refinement. <i>Lecture Notes in Computer Science</i> , 2015 , 164-180	0.9	11
100	Towards an Ontological Account of Agent-Oriented Goals 2006 , 148-164		11
99	Ontological Foundations for software requirements with a focus on requirements at runtime. <i>Applied Ontology</i> , 2018 , 13, 73-105	1.4	10
98	Ontology-Based Evaluation and Design of Visual Conceptual Modeling Languages 2013 , 317-347		10
97	On the Foundations of UML as an Ontology Representation Language. <i>Lecture Notes in Computer Science</i> , 2004 , 47-62	0.9	10
96	Multi-level Conceptual Modeling: From a Formal Theory to a Well-Founded Language. <i>Lecture Notes in Computer Science</i> , 2018 , 409-423	0.9	10

95	Assessing Modal Aspects of OntoUML Conceptual Models in Alloy. <i>Lecture Notes in Computer Science</i> , 2009 , 55-64	0.9	10
94	A Pattern Language for Value Modeling in ArchiMate. <i>Lecture Notes in Computer Science</i> , 2019 , 230-245	0.9	9
93	Dispositions and causal laws as the ontological foundation of transition rules in simulation models 2013 ,		9
92	An ontological foundation for conceptual modeling datatypes based on semantic reference spaces 2013 ,		9
91	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	0.8	9
90	Conceptual Modeling of Legal Relations. <i>Lecture Notes in Computer Science</i> , 2018 , 169-183	0.9	9
89	Detection, Simulation and Elimination of Semantic Anti-patterns in Ontology-Driven Conceptual Models. <i>Lecture Notes in Computer Science</i> , 2014 , 363-376	0.9	9
88	Ontological Foundations for Conceptual Part-Whole Relations: The Case of Collectives and Their Parts. <i>Lecture Notes in Computer Science</i> , 2011 , 138-153	0.9	9
87	Ontological Foundations for Conceptual Modeling with Applications. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2012 , 695-696	0.3	9
86	Formal Definition of a General Ontology Pattern Language using a Graph Grammar 2017 ,		8
85	UFO: Unified Foundational Ontology. <i>Applied Ontology</i> , 2022 , 1-44	1.4	8
84	Expressive Multi-level Modeling for the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2016 , 53-69	0.9	8
83	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	0.9	8
82	Ontological Distinctions between Means-End and Contribution Links in the i* Framework. <i>Lecture Notes in Computer Science</i> , 2013 , 463-470	0.9	8
81	Ontology-Based Model Abstraction 2019 ,		8
80	Breaking into pieces: An ontological approach to conceptual model complexity management 2018 ,		7
79	Applying a foundational ontology to analyze means-end links in the i* framework 2012 ,		7
78	Tutorial: Conceptual simulation modeling with Onto-UML 2012 ,		7

77	Types and taxonomic structures in conceptual modeling: A novel ontological theory and engineering support. <i>Data and Knowledge Engineering</i> , 2021 , 134, 101891	1.5	7
76	Image Schema Combinations and Complex Events. <i>KI - Kunstliche Intelligenz</i> , 2019 , 33, 279-291	1.8	6
75	An ISO-based software process ontology pattern language and its application for harmonizing standards. <i>ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing</i> , 2015 , 15, 27-40	0.7	6
74	ECG data provisioning for telehomecare monitoring 2008 ,		6
73	Towards semantic software engineering environments 2002 ,		6
72	Towards an Ontology of Software Defects, Errors and Failures. <i>Lecture Notes in Computer Science</i> , 2018 , 349-362	0.9	6
71	PoN-S: A Systematic Approach for Applying the Physics of Notation (PoN). <i>Lecture Notes in Business Information Processing</i> , 2016 , 432-447	0.6	6
70	Ontological Meta-properties of Derived Object Types. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2012 , 318-333	0.3	6
69	Service contract modeling in Enterprise Architecture: An ontology-based approach. <i>Information Systems</i> , 2021 , 101, 101454	2.7	6
68	GSO: Designing a well-founded service ontology to support dynamic service discovery and composition 2009 ,		5
67	An ontology-based application in heart electrophysiology 2009 ,		5
66	Ontological evaluation of the ITU-T Recommendation G.805 2011 ,		5
65	A Semantic Foundation for Role-Related Concepts in Enterprise Modelling 2008 ,		5
64	A service architecture for sensor data provisioning for context-aware mobile applications 2008 ,		5
63	Ontological Unpacking as Explanation: The Case of the Viral Conceptual Model. <i>Lecture Notes in Computer Science</i> , 2021 , 356-366	0.9	5
62	Foundational ontologies meet ontology matching: A survey. <i>Semantic Web</i> , 2021 , 1-20	2.4	5
61	Reification and Truthmaking Patterns. <i>Lecture Notes in Computer Science</i> , 2018 , 151-165	0.9	5
60	Ontology-Based Modeling and Analysis of Trustworthiness Requirements: Preliminary Results. <i>Lecture Notes in Computer Science</i> , 2020 , 342-352	0.9	5

59	A Core Ontology for Economic Exchanges. <i>Lecture Notes in Computer Science</i> , 2020 , 364-374	0.9	5
58	Modeling Trust in Enterprise Architecture: A Pattern Language for ArchiMate. <i>Lecture Notes in Business Information Processing</i> , 2020 , 73-89	0.6	5
57	Towards a Service Ontology Pattern Language. <i>Lecture Notes in Computer Science</i> , 2015 , 187-195	0.9	5
56	Towards an Ontology of Scenes and Situations 2018 ,		5
55	Conceptual simulation modeling with Onto-UML advanced tutorial 2012 ,		4
54	A Reference Ontology of Money and Virtual Currencies. <i>Lecture Notes in Business Information Processing</i> , 2020 , 228-243	0.6	4
53	Software as a Social Artifact: A Management and Evolution Perspective. <i>Lecture Notes in Computer Science</i> , 2014 , 321-334	0.9	4
52	Finding reusable structured resources for the integration of environmental research data. <i>Environmental Modelling and Software</i> , 2020 , 133, 104813	5.2	3
51	Support for Domain Constraints in the Validation of Ontologically Well-Founded Conceptual Models. <i>Lecture Notes in Business Information Processing</i> , 2014 , 302-316	0.6	3
50	An Ontology-Based Semantic Foundation for Organizational Structure Modeling in the ARIS Method 2010 ,		3
49	A Linguistic Approach to Conceptual Modeling with Semantic Types and OntoUML 2010 ,		3
48	Vocabularies, ontologies, and rules for enterprise and business process modeling and management. <i>Information Systems</i> , 2010 , 35, 375-378	2.7	3
47	Trustworthiness Requirements: The Pix Case Study. <i>Lecture Notes in Computer Science</i> , 2021 , 257-267	0.9	3
46	Towards an Ontological Modelling of Preference Relations. <i>Lecture Notes in Computer Science</i> , 2018 , 152-165	0.9	3
45	Transformation of Ontology-Based Conceptual Models into Relational Schemas. <i>Lecture Notes in Computer Science</i> , 2020 , 315-330	0.9	3
44	On Domain Modelling and Requisite Variety. <i>Lecture Notes in Business Information Processing</i> , 2020 , 186-196		3
43	Logical, Ontological and Cognitive Aspects of Object Types and Cross-World Identity with Applications to the Theory of Conceptual Spaces 2015 , 165-186		3
42	The Design of a Core Value Ontology Using Ontology Patterns. <i>Lecture Notes in Computer Science</i> , 2016 , 183-193	0.9	3

41	An ontological analysis of software system anomalies and their associated risks. <i>Data and Knowledge Engineering</i> , 2021 , 134, 101892	1.5	3
40	Multi-level conceptual modeling: Theory, language and application. <i>Data and Knowledge Engineering</i> , 2021 , 134, 101894	1.5	3
39	An Ontology-Based Diagnosis of Mainstream Service Modeling Languages 2019 ,		3
38	On Domain Conceptualization. <i>Lecture Notes in Business Information Processing</i> , 2021 , 49-69	0.6	3
37	Automated conceptual model clustering: a relator-centric approach. <i>Software and Systems Modeling</i> , 2021 , 1-25	1.9	3
36	2017 ,		2
35	On the Goal Domain in the RM-ODP Enterprise Language: An Initial Appraisal Based on a Foundational Ontology 2010 ,		2
34	Events, their names, and their synchronic structure. <i>Applied Ontology</i> , 2022 , 1-35	1.4	2
33	Mind the Gap!: Learning Missing Constraints from Annotated Conceptual Model Simulations. <i>Lecture Notes in Business Information Processing</i> , 2021 , 64-79	0.6	2
32	Capturing Multi-level Models in a Two-Level Formal Modeling Technique. <i>Lecture Notes in Computer Science</i> , 2019 , 43-51	0.9	2
31	Towards Automated Support for Conceptual Model Diagnosis and Repair. <i>Lecture Notes in Computer Science</i> , 2020 , 15-25	0.9	2
30	On the Application of Ontological Patterns for Conceptual Modeling in Multidimensional Models. <i>Lecture Notes in Computer Science</i> , 2019 , 215-231	0.9	2
29	Revisiting the DEMO Transaction Pattern with the Unified Foundational Ontology (UFO). <i>Lecture Notes in Business Information Processing</i> , 2017 , 181-195	0.6	2
28	A Semantic Oriented Method for Conceptual Data Modeling in OntoUML Based on Linguistic Concepts. <i>Lecture Notes in Computer Science</i> , 2011 , 486-494	0.9	2
27	How software changes the world: The role of assumptions 2016 ,		2
26	Ontological Analysis and Redesign of Risk Modeling in ArchiMate 2018 ,		2
25	Understanding and Modeling Prevention. <i>Lecture Notes in Business Information Processing</i> , 2022 , 389-405	0.6	2
24	Towards an ontology pattern language for harmonizing software process related ISO standards 2015 ,		1

23	Fifty Shades of Green: How Informative is a Compliant Process Trace?. <i>Lecture Notes in Computer Science</i> , 2019 , 611-626	0.9	1
22	Relational Contexts and Conceptual Model Clustering. <i>Lecture Notes in Business Information Processing</i> , 2020 , 211-227	0.6	1
21	Engineering Requirements with Desiree: An Empirical Evaluation. <i>Lecture Notes in Computer Science</i> , 2016 , 221-238	0.9	1
20	Is It a Fleet or a Collection of Ships? Ontological Anti-patterns in the Modeling of Part-Whole Relations. <i>Lecture Notes in Computer Science</i> , 2017 , 28-41	0.9	1
19	Foundational Choices in Enterprise Architecture: The Case of Capability in Defense Frameworks 2019 ,		1
18	Preserving Multi-level Semantics in Conventional Two-Level Modeling Techniques 2019 ,		1
17	How FAIR are Security Core Ontologies? A Systematic Mapping Study. <i>Lecture Notes in Business Information Processing</i> , 2021 , 107-123	0.6	1
16	Modeling the Emergence of Value and Risk in Game Theoretical Approaches. <i>Lecture Notes in Business Information Processing</i> , 2021 , 70-91	0.6	1
15	Abstracting Ontology-Driven Conceptual Models: Objects, Aspects, Events, and Their Parts. <i>Lecture Notes in Business Information Processing</i> , 2022 , 372-388	0.6	1
14	An Ontological Characterization of a Conceptual Model of the Human Genome. <i>Lecture Notes in Business Information Processing</i> , 2022 , 27-35	0.6	1
13	CASTING THE LIGHT OF THE THEORY OF OPPOSITION ONTO HOHFELD'S FUNDAMENTAL LEGAL CONCEPTS. <i>Legal Theory</i> , 2021 , 27, 2-35	0.2	0
12	Foundational ontologies, ontology-driven conceptual modeling, and their multiple benefits to data mining. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2021 , 11, e1408	6.9	0
11	Forward Engineering Relational Schemas and High-Level Data Access from Conceptual Models. <i>Lecture Notes in Computer Science</i> , 2021 , 133-148	0.9	
10	A Reference Conceptual Model for Virtual Network Function Online Marketplaces. <i>Lecture Notes in Computer Science</i> , 2019 , 302-310	0.9	
9	Ricardo de Almeida Falbo (1964-2020). <i>Applied Ontology</i> , 2020 , 15, 241-243	1.4	
8	Designing Web Information Systems for a Framework-Based Construction. <i>Advances in Database Research Series</i> , 2009 , 204-238		
7	A Common Foundational Theory for Bridging Two Levels in Ontology-Driven Conceptual Modeling. <i>Lecture Notes in Computer Science</i> , 2013 , 286-310	0.9	
6	Building Correct Taxonomies with a Well-Founded Graph Grammar. <i>Lecture Notes in Business Information Processing</i> , 2021 , 506-522	0.6	

- 5 Ontologically correct taxonomies by construction. *Data and Knowledge Engineering*, **2022**, 102012 1.5
- 4 Eliciting Ethicality Requirements Using the Ontology-Based Requirements Engineering Method. *Lecture Notes in Business Information Processing*, **2022**, 221-236 0.6
- 3 Conceptual model visual simulation and the inductive learning of missing domain constraints. *Data and Knowledge Engineering*, **2022**, 102040 1.5
- 2 Towards an Ontology Network in Finance and Economics. *Lecture Notes in Business Information Processing*, **2022**, 42-57 0.6
- 1 Modeling Payments and Linked Obligation Settlements. *Lecture Notes in Business Information Processing*, **2022**, 21-41 0.6