Giancarlo Guizzardi

List of Publications by Year in Descending Order

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	Events, their names, and their synchronic structure. *Applied Ontology*, **2022**, 1-35	1.4	2
165	UFO: Unified Foundational Ontology. *Applied Ontology*, **2022**, 1-44	1.4	8
164	Ontologically correct taxonomies by construction. *Data and Knowledge Engineering*, **2022**, 102012	1.5	
163	Abstracting Ontology-Driven Conceptual Models: Objects, Aspects, Events, and Their Parts. *Lecture Notes in Business Information Processing*, **2022**, 372-388	0.6	1
162	Understanding and Modeling Prevention. *Lecture Notes in Business Information Processing*, **2022**, 389-405	0.6	2
161	Eliciting Ethicality Requirements Using the Ontology-Based Requirements Engineering Method. *Lecture Notes in Business Information Processing*, **2022**, 221-236	0.6	
160	An Ontological Characterization of a Conceptual Model of the Human Genome. *Lecture Notes in Business Information Processing*, **2022**, 27-35	0.6	1
159	Conceptual model visual simulation and the inductive learning of missing domain constraints. *Data and Knowledge Engineering*, **2022**, 102040	1.5	
158	Towards an Ontology Network in Finance and Economics. *Lecture Notes in Business Information Processing*, **2022**, 42-57	0.6	
157	Modeling Payments and Linked Obligation Settlements. *Lecture Notes in Business Information Processing*, **2022**, 21-41	0.6	
156	Mind the Gap!: Learning Missing Constraints from Annotated Conceptual Model Simulations. *Lecture Notes in Business Information Processing*, **2021**, 64-79	0.6	2
155	Trustworthiness Requirements: The Pix Case Study. *Lecture Notes in Computer Science*, **2021**, 257-267	0.9	3
154	Forward Engineering Relational Schemas and High-Level Data Access from Conceptual Models. *Lecture Notes in Computer Science*, **2021**, 133-148	0.9	
153	Ontological Unpacking as Explanation: The Case of the Viral Conceptual Model. *Lecture Notes in Computer Science*, **2021**, 356-366	0.9	5
152	Foundational ontologies meet ontology matching: A survey. *Semantic Web*, **2021**, 1-20	2.4	5
151	CASTING THE LIGHT OF THE THEORY OF OPPOSITION ONTO HOHFELD'S FUNDAMENTAL LEGAL CONCEPTS. *Legal Theory*, **2021**, 27, 2-35	0.2	0
150	Foundational ontologies, ontology-driven conceptual modeling, and their multiple benefits to data mining. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, **2021**, 11, e1408	6.9	0

149	An ontological analysis of software system anomalies and their associated risks. *Data and Knowledge Engineering*, **2021**, 134, 101892	1.5	3
148	Multi-level conceptual modeling: Theory, language and application. *Data and Knowledge Engineering*, **2021**, 134, 101894	1.5	3
147	Service contract modeling in Enterprise Architecture: An ontology-based approach. *Information Systems*, **2021**, 101, 101454	2.7	6
146	On Domain Conceptualization. *Lecture Notes in Business Information Processing*, **2021**, 49-69	0.6	3
145	How FAIR are Security Core Ontologies? A Systematic Mapping Study. *Lecture Notes in Business Information Processing*, **2021**, 107-123	0.6	1
144	Modeling the Emergence of Value and Risk in Game Theoretical Approaches. *Lecture Notes in Business Information Processing*, **2021**, 70-91	0.6	1
143	Building Correct Taxonomies with a Well-Founded Graph Grammar. *Lecture Notes in Business Information Processing*, **2021**, 506-522	0.6	
142	Types and taxonomic structures in conceptual modeling: A novel ontological theory and engineering support. *Data and Knowledge Engineering*, **2021**, 134, 101891	1.5	7
141	Automated conceptual model clustering: a relator-centric approach. *Software and Systems Modeling* , **2021**, 1-25	1.9	3
140	Finding reusable structured resources for the integration of environmental research data. *Environmental Modelling and Software*, **2020**, 133, 104813	5.2	3
139	FAIR Principles: Interpretations and Implementation Considerations. *Data Intelligence*, **2020**, 2, 10-29	3	66
138	Ricardo de Almeida Falbo (1964–2020). *Applied Ontology*, **2020**, 15, 241-243	1.4	
137	Towards Automated Support for Conceptual Model Diagnosis and Repair. *Lecture Notes in Computer Science*, **2020**, 15-25	0.9	2
136	A Reference Ontology of Money and Virtual Currencies. *Lecture Notes in Business Information Processing*, **2020**, 228-243	0.6	4
135	Transformation of Ontology-Based Conceptual Models into Relational Schemas. *Lecture Notes in Computer Science*, **2020**, 315-330	0.9	3
134	Ontology-Based Modeling and Analysis of Trustworthiness Requirements: Preliminary Results. *Lecture Notes in Computer Science*, **2020**, 342-352	0.9	5
133	A Core Ontology for Economic Exchanges. *Lecture Notes in Computer Science*, **2020**, 364-374	0.9	5
132	On Domain Modelling and Requisite Variety. *Lecture Notes in Business Information Processing*, **2020**, 186-196	0.6	3

131	Relational Contexts and Conceptual Model Clustering. *Lecture Notes in Business Information Processing*, **2020**, 211-227	0.6	1
130	Modeling Trust in Enterprise Architecture: A Pattern Language for ArchiMate. *Lecture Notes in Business Information Processing*, **2020**, 73-89	0.6	5
129	Ontology, Ontologies and the Ilof FAIR. *Data Intelligence*, **2020**, 2, 181-191	3	21
128	A Pattern Language for Value Modeling in ArchiMate. *Lecture Notes in Computer Science*, **2019**, 230-245	0.9	9
127	Representing a reference foundational ontology of events in SROIQ. *Applied Ontology*, **2019**, 14, 293-334	1.4	14
126	Image Schema Combinations and Complex Events. *KI - Kunstliche Intelligenz*, **2019**, 33, 279-291	1.8	6
125	A Reference Conceptual Model for Virtual Network Function Online Marketplaces. *Lecture Notes in Computer Science*, **2019**, 302-310	0.9	
124	Capturing Multi-level Models in a Two-Level Formal Modeling Technique. *Lecture Notes in Computer Science*, **2019**, 43-51	0.9	2
123	Fifty Shades of Green: How Informative is a Compliant Process Trace?. *Lecture Notes in Computer Science*, **2019**, 611-626	0.9	1
122	On the Application of Ontological Patterns for Conceptual Modeling in Multidimensional Models. *Lecture Notes in Computer Science*, **2019**, 215-231	0.9	2
121	Events as Entities in Ontology-Driven Conceptual Modeling. *Lecture Notes in Computer Science*, **2019**, 469-483	0.9	17
120	Relations in Ontology-Driven Conceptual Modeling. *Lecture Notes in Computer Science*, **2019**, 28-42	0.9	12
119	Towards a Reference Ontology of Trust. *Lecture Notes in Computer Science*, **2019**, 3-21	0.9	12
118	Foundational Choices in Enterprise Architecture: The Case of Capability in Defense Frameworks **2019**,		1
117	An Ontology-Based Diagnosis of Mainstream Service Modeling Languages **2019**,		3
116	Ontology-Based Model Abstraction **2019**,		8
115	Preserving Multi-level Semantics in Conventional Two-Level Modeling Techniques **2019**,		1
114	Comparing traditional conceptual modeling with ontology-driven conceptual modeling: An empirical study. *Information Systems*, **2019**, 81, 92-103	2.7	32

113	Breaking into pieces: An ontological approach to conceptual model complexity management **2018**,		7
112	Ontological foundations for software requirements with a focus on requirements at runtime. *Applied Ontology*, **2018**, 13, 73-105	1.4	10
111	Endurant Types in Ontology-Driven Conceptual Modeling: Towards OntoUML 2.0. *Lecture Notes in Computer Science*, **2018**, 136-150	0.9	23
110	Reification and Truthmaking Patterns. *Lecture Notes in Computer Science*, **2018**, 151-165	0.9	5
109	Conceptual Modeling of Legal Relations. *Lecture Notes in Computer Science*, **2018**, 169-183	0.9	9
108	Towards an Ontology of Software Defects, Errors and Failures. *Lecture Notes in Computer Science*, **2018**, 349-362	0.9	6
107	Multi-level Conceptual Modeling: From a Formal Theory to a Well-Founded Language. *Lecture Notes in Computer Science*, **2018**, 409-423	0.9	10
106	Towards an Ontological Modelling of Preference Relations. *Lecture Notes in Computer Science*, **2018**, 152-165	0.9	3
105	Ontological Analysis and Redesign of Risk Modeling in ArchiMate **2018**,		2
104	The Common Ontology of Value and Risk. *Lecture Notes in Computer Science*, **2018**, 121-135	0.9	30
103	Towards an Ontology of Scenes and Situations **2018**,		5
102	From reference ontologies to ontology patterns and back. *Data and Knowledge Engineering*, **2017**, 109, 41-69	1.5	29
101	Multi-level ontology-based conceptual modeling. *Data and Knowledge Engineering*, **2017**, 109, 3-24	1.5	33
100	From an Ontology of Service Contracts to Contract Modeling in Enterprise Architecture **2017**,		18
99	An Ontological Analysis of Value Propositions **2017**,		19
98	**2017**,		2
97	Formal Definition of a General Ontology Pattern Language using a Graph Grammar **2017**,		8
96	Revisiting the DEMO Transaction Pattern with the Unified Foundational Ontology (UFO). *Lecture Notes in Business Information Processing*, **2017**, 181-195	0.6	2

95	Is It a Fleet or a Collection of Ships? Ontological Anti-patterns in the Modeling of Part-Whole Relations. *Lecture Notes in Computer Science*, **2017**, 28-41	0.9	1
94	Applying a Multi-Level Modeling Theory to Assess Taxonomic Hierarchies in Wikidata **2016**,		17
93	PoN-S: A Systematic Approach for Applying the Physics of Notation (PoN). *Lecture Notes in Business Information Processing*, **2016**, 432-447	0.6	6
92	Using a Well-Founded Multi-level Theory to Support the Analysis and Representation of the Powertype Pattern in Conceptual Modeling. *Lecture Notes in Computer Science*, **2016**, 309-324	0.9	15
91	Expressive Multi-level Modeling for the Semantic Web. *Lecture Notes in Computer Science*, **2016**, 53-69	0.9	8
90	The Design of a Core Value Ontology Using Ontology Patterns. *Lecture Notes in Computer Science*, **2016**, 183-193	0.9	3
89	SEON: A Software Engineering Ontology Network. *Lecture Notes in Computer Science*, **2016**, 527-542	0.9	14
88	Relationships and Events: Towards a General Theory of Reification and Truthmaking. *Lecture Notes in Computer Science*, **2016**, 237-249	0.9	27
87	Engineering Requirements with Desiree: An Empirical Evaluation. *Lecture Notes in Computer Science* , **2016**, 221-238	0.9	1
86	An ontology pattern language for service modeling **2016**,		17
85	How software changes the world: The role of assumptions **2016**,		2
84	Ontological Considerations About the Representation of Events and Endurants in Business Models. *Lecture Notes in Computer Science*, **2016**, 20-36	0.9	25
83	Modeling resources and capabilities in enterprise architecture: A well-founded ontology-based proposal for ArchiMate. *Information Systems*, **2015**, 54, 235-262	2.7	68
82	Ontological anti-patterns: empirically uncovered error-prone structures in ontology-driven conceptual models. *Data and Knowledge Engineering*, **2015**, 99, 72-104	1.5	19
81	A commitment-based reference ontology for services. *Information Systems*, **2015**, 54, 263-288	2.7	53
80	Extending the Foundations of Ontology-Based Conceptual Modeling with a Multi-level Theory. *Lecture Notes in Computer Science*, **2015**, 119-133	0.9	19
79	OntoUML Lightweight Editor: A Model-Based Environment to Build, Evaluate and Implement Reference Ontologies **2015**,		16
78	Towards an ontology pattern language for harmonizing software process related ISO standards **2015**,		1

77	Towards ontological foundations for conceptual modeling: The unified foundational ontology (UFO) story. *Applied Ontology*, **2015**, 10, 259-271	1.4	98
76	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	0.7	6
75	Logical, Ontological and Cognitive Aspects of Object Types and Cross-World Identity with Applications to the Theory of Conceptual Spaces **2015**, 165-186		3
74	From Stakeholder Requirements to Formal Specifications Through Refinement. *Lecture Notes in Computer Science*, **2015**, 164-180	0.9	11
73	We Need to Discuss the Relationship: Revisiting Relationships as Modeling Constructs. *Lecture Notes in Computer Science*, **2015**, 279-294	0.9	31
72	Ontology Engineering by Combining Ontology Patterns. *Lecture Notes in Computer Science*, **2015**, 173-186	0.9	19
71	Towards a Service Ontology Pattern Language. *Lecture Notes in Computer Science*, **2015**, 187-195	0.9	5
70	Non-functional requirements as qualities, with a spice of ontology **2014**,		18
69	Support for Domain Constraints in the Validation of Ontologically Well-Founded Conceptual Models. *Lecture Notes in Business Information Processing*, **2014**, 302-316	0.6	3
68	Towards an enterprise ontology pattern language **2014**,		13
67	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	1.1	14
66	Ontological Patterns, Anti-Patterns and Pattern Languages for Next-Generation Conceptual Modeling. *Lecture Notes in Computer Science*, **2014**, 13-27	0.9	25
65	Software as a Social Artifact: A Management and Evolution Perspective. *Lecture Notes in Computer Science*, **2014**, 321-334	0.9	4
64	Detection, Simulation and Elimination of Semantic Anti-patterns in Ontology-Driven Conceptual Models. *Lecture Notes in Computer Science*, **2014**, 363-376	0.9	9
63	An Ontology-Based Well-Founded Proposal for Modeling Resources and Capabilities in ArchiMate **2013**,		26
62	Dispositions and causal laws as the ontological foundation of transition rules in simulation models **2013**,		9
61	An ontological foundation for conceptual modeling datatypes based on semantic reference spaces **2013**,		9
60	An ontology-based analysis and semantics for organizational structure modeling in the ARIS method. *Information Systems*, **2013**, 38, 690-708	2.7	21

59	An ontological analysis of the notion of community in the RM-ODP enterprise language. *Computer Standards and Interfaces*, **2013**, 35, 257-268	3.5	16
58	Towards a Commitment-Based Reference Ontology for Services **2013**,		19
57	Ontology-Based Evaluation and Design of Visual Conceptual Modeling Languages **2013**, 317-347		10
56	Towards Ontological Foundations for the Conceptual Modeling of Events. *Lecture Notes in Computer Science*, **2013**, 327-341	0.9	74
55	Ontological Distinctions between Means-End and Contribution Links in the i* Framework. *Lecture Notes in Computer Science*, **2013**, 463-470	0.9	8
54	A Common Foundational Theory for Bridging Two Levels in Ontology-Driven Conceptual Modeling. *Lecture Notes in Computer Science*, **2013**, 286-310	0.9	
53	Applying a foundational ontology to analyze means-end links in the i* framework **2012**,		7
52	Tutorial: Conceptual simulation modeling with Onto-UML **2012**,		7
51	Conceptual simulation modeling with Onto-UML advanced tutorial **2012**,		4
50	Ontological Meta-properties of Derived Object Types. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2012**, 318-333	0.3	6
49	Ontological Foundations for Conceptual Modeling with Applications. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2012**, 695-696	0.3	9
48	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	0.8	9
47	Using an ECG reference ontology for semantic interoperability of ECG data. *Journal of Biomedical Informatics*, **2011**, 44, 126-36	10.2	34
46	Towards an ontological foundation of agent-based simulation **2011**,		12
45	An Ontology-Based Semantics for the Motivation Extension to ArchiMate **2011**,		31
44	Ontological evaluation of the ITU-T Recommendation G.805 **2011**,		5
43	Ontological Foundations for Conceptual Part-Whole Relations: The Case of Collectives and Their Parts. *Lecture Notes in Computer Science*, **2011**, 138-153	0.9	9
42	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	0.9	8

41	Can BPMN Be Used for Making Simulation Models?. *Lecture Notes in Business Information Processing* , **2011**, 100-115	0.6	18
40	Formal Semantics and Ontological Analysis for Understanding Subsetting, Specialization and Redefinition of Associations in UML. *Lecture Notes in Computer Science*, **2011**, 189-203	0.9	13
39	A Semantic Oriented Method for Conceptual Data Modeling in OntoUML Based on Linguistic Concepts. *Lecture Notes in Computer Science*, **2011**, 486-494	0.9	2
38	Theoretical foundations and engineering tools for building ontologies as reference conceptual models. *Semantic Web*, **2010**, 1, 3-10	2.4	20
37	The Role of Foundational Ontologies for Domain Ontology Engineering. *International Journal of Information System Modeling and Design*, **2010**, 1, 1-22	0.8	21
36	On the Representation of Temporally Changing Information in OWL **2010**,		18
35	An ontology-based semantic foundation for ARIS EPCs **2010**,		22
34	On the Goal Domain in the RM-ODP Enterprise Language: An Initial Appraisal Based on a Foundational Ontology **2010**,		2
33	An Ontology-Based Semantic Foundation for Organizational Structure Modeling in the ARIS Method **2010**,		3
32	Using the Unified Foundational Ontology (UFO) as a Foundation for General Conceptual Modeling Languages **2010**, 175-196		40
31	A Linguistic Approach to Conceptual Modeling with Semantic Types and OntoUML **2010**,		3
30	Towards an ontological foundation of discrete event simulation **2010**,		25
29	Transforming OntoUML into Alloy: towards conceptual model validation using a lightweight formal method. *Innovations in Systems and Software Engineering*, **2010**, 6, 55-63	1.1	24
28	Vocabularies, ontologies, and rules for enterprise and business process modeling and management. *Information Systems*, **2010**, 35, 375-378	2.7	3
27	GSO: Designing a well-founded service ontology to support dynamic service discovery and composition **2009**,		5
26	Requirements engineering based on business process models: A case study **2009**,		16
25	An ontology-based application in heart electrophysiology **2009**,		5
24	Applying and extending a semantic foundation for role-related concepts in enterprise modelling. *Enterprise Information Systems*, **2009**, 3, 253-277	3.5	21

23	A Model-Based Tool for Conceptual Modeling and Domain Ontology Engineering in OntoUML. *Lecture Notes in Business Information Processing*, **2009**, 528-538	0.6	24
22	The Problem of Transitivity of Part-Whole Relations in Conceptual Modeling Revisited. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2009**, 94-109	0.3	19
21	Assessing Modal Aspects of OntoUML Conceptual Models in Alloy. *Lecture Notes in Computer Science*, **2009**, 55-64	0.9	10
20	Designing Web Information Systems for a Framework-Based Construction. *Advances in Database Research Series*, **2009**, 204-238		
19	A Semantic Foundation for Role-Related Concepts in Enterprise Modelling **2008**,		5
18	A service architecture for sensor data provisioning for context-aware mobile applications **2008**,		5
17	ECG data provisioning for telehomecare monitoring **2008**,		6
16	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	0.7	22
15	Ontological foundations for conceptual modelling. *Applied Ontology*, **2008**, 3, 1-12	1.4	28
14	What is in a Relationship: An Ontological Analysis. *Lecture Notes in Computer Science*, **2008**, 83-97	0.9	19
13	Modal Aspects of Object Types and Part-Whole Relations and the de re/de dicto Distinction. *Lecture Notes in Computer Science*, **2007**, 5-20	0.9	16
12	Situations in Conceptual Modeling of Context **2006**,		24
11	Towards an Ontological Account of Agent-Oriented Goals **2006**, 148-164		11
10	Agent Roles, Qua Individuals and the Counting Problem. *Lecture Notes in Computer Science*, **2006**, 143-160	0.9	15
9	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	0.9	17
8	Some Applications of a Unified Foundational Ontology in Business Modeling **2005**, 345-367		18
7	An Ontology-Based Approach for Evaluating the Domain Appropriateness and Comprehensibility Appropriateness of Modeling Languages. *Lecture Notes in Computer Science*, **2005**, 691-705	0.9	22
6	On the Foundations of UML as an Ontology Representation Language. *Lecture Notes in Computer Science*, **2004**, 47-62	0.9	10

5	An Ontologically Well-Founded Profile for UML Conceptual Models. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2004**, 112-126	0.3	38
4	An ontological approach to domain engineering **2002**,		31
3	Towards semantic software engineering environments **2002**,		6
2	Towards Ontological Foundations for UML Conceptual Models. *Lecture Notes in Computer Science*, **2002**, 1100-1117	0.9	20
1	On the General Ontological Foundations of Conceptual Modeling. *Lecture Notes in Computer Science*, **2002**, 65-78	0.9	41