Geert Poels

List of Publications by Citations

146 papers	1,370 citations	18 h-index	30 g-index
156 ext. papers	1,591 ext. citations	1.8 avg, IF	4.92 L-index

#	Paper	IF	Citations
146	A conceptual modeling quality framework. *Software Quality Journal*, **2012**, 20, 201-228	1.2	79
145	A conceptual framework and classification of capability areas for business process maturity. *Enterprise Information Systems*, **2014**, 8, 188-224	3.5	75
144	Defining business process maturity. A journey towards excellence. *Total Quality Management and Business Excellence*, **2011**, 22, 1119-1137	2.7	73
143	Evaluating quality of conceptual modelling scripts based on user perceptions. *Data and Knowledge Engineering*, **2007**, 63, 701-724	1.5	63
142	Distance-based software measurement: necessary and sufficient properties for software measures. *Information and Software Technology*, **2000**, 42, 35-46	3.4	62
141	Choosing the right business process maturity model. *Information and Management*, **2013**, 50, 466-488	6.6	53
140	Defining and validating metrics for assessing the understandability of entity-relationship diagrams. *Data and Knowledge Engineering*, **2008**, 64, 534-557	1.5	52
139	The impact of structural complexity on the understandability of UML statechart diagrams. *Information Sciences*, **2010**, 180, 2209-2220	7.7	38
138	Tying Process Model Quality to the Modeling Process: The Impact of Structuring, Movement, and Speed. *Lecture Notes in Computer Science*, **2012**, 33-48	0.9	33
137	A visual analysis of the process of process modeling. *Information Systems and E-Business Management*, **2015**, 13, 147-190	2.6	27
136	Mixed-Paradigm Process Modeling with Intertwined State Spaces. *Business and Information Systems Engineering*, **2016**, 58, 19-29	3.8	24
135	Merging event logs for process mining: A rule based merging method and rule suggestion algorithm. *Expert Systems With Applications*, **2014**, 41, 7291-7306	7.8	21
134	Positioning and Formalizing the REA Enterprise Ontology. *Journal of Information Systems*, **2008**, 22, 219-248	2.9	21
133	A functional size measurement method for object-oriented conceptual schemas: design and evaluation issues. *Software and Systems Modeling*, **2006**, 5, 48-71	1.9	20
132	Towards a decision-aware declarative process modeling language for knowledge-intensive processes. *Expert Systems With Applications*, **2017**, 87, 316-334	7.8	19
131	Ontology-driven conceptual modeling: A systematic literature mapping and review. *Applied Ontology*, **2015**, 10, 197-227	1.4	18
130	Evaluating Business Process Maturity Models. *Journal of the Association for Information Systems*, **2017**, 18, 461-486	1.8	18

129	Enhancing Declarative Process Models with DMN Decision Logic. *Lecture Notes in Business Information Processing*, **2015**, 151-165	0.6	18
128	The Structured Process Modeling Theory (SPMT) a cognitive view on why and how modelers benefit from structuring the process of process modeling. *Information Systems Frontiers*, **2015**, 17, 1401-1425	4	17
127	Process fragmentation, distribution and execution using an event-based interaction scheme. *Journal of Systems and Software*, **2014**, 89, 170-192	3.3	17
126	Understanding Business Domain Models. *Journal of Database Management*, **2011**, 22, 69-101	2.2	16
125	Towards improving the navigability of Web applications: a model-driven approach. *European Journal of Information Systems*, **2007**, 16, 420-447	6.4	16
124	Enterprise Architecture for Small and Medium-Sized Enterprises: A Starting Point for Bringing EA to SMEs, Based on Adoption Models. *Progress in IS*, **2014**, 67-96	0.9	15
123	A family of experiments to evaluate a functional size measurement procedure for Web applications. *Journal of Systems and Software*, **2009**, 82, 253-269	3.3	15
122	Experimental evaluation of an object-oriented function point measurement procedure. *Information and Software Technology*, **2007**, 49, 366-380	3.4	14
121	Track and Trace Future, Present, and Past Product and Money Flows with a Resource-Event-Agent Model. *Information Systems Management*, **2012**, 29, 123-136	3.1	13
120	The pragmatic quality of Resources- Events-Agents diagrams: an experimental evaluation. *Information Systems Journal*, **2011**, 21, 63-89	5.9	13
119	Towards Ontology-Driven Information Systems: Redesign and Formalization of the REA Ontology **2007**, 245-259		13
118	The Resource-Service-System Model for Service Science. *Lecture Notes in Computer Science*, **2010**, 117-126	0.9	13
117	Evaluating Quality of Conceptual Models Based on User Perceptions. *Lecture Notes in Computer Science*, **2006**, 54-67	0.9	13
116	CHOOSE: Towards a metamodel for enterprise architecture in small and medium-sized enterprises. *Information Systems Frontiers*, **2016**, 18, 781-818	4	12
115	Improving the quality of the Heuristics Miner in ProM 6.2. *Expert Systems With Applications*, **2014**, 41, 7678-7690	7.8	12
114	Comments on "Property-based software engineering measurement: refining the additivity properties". *IEEE Transactions on Software Engineering*, **1997**, 23, 190-197	3.5	12
113	Ontology-Driven Business Modelling: Improving the Conceptual Representation of the REA Ontology. *Lecture Notes in Computer Science*, **2007**, 407-422	0.9	12
112	A Conceptual Model of Service Exchange in Service-Dominant Logic. *Lecture Notes in Business Information Processing*, **2010**, 224-238	0.6	12

111	Measures for Assessing Dynamic Complexity Aspects of Object-Oriented Conceptual Schemes. *Lecture Notes in Computer Science*, **2000**, 499-512	0.9	12
110	Invariant conditions in value system simulation models. *Decision Support Systems*, **2013**, 56, 275-287	5.6	11
109	Visualizing the Process of Process Modeling with PPMCharts. *Lecture Notes in Business Information Processing*, **2013**, 744-755	0.6	11
108	Practical Challenges for Methods Transforming i* Goal Models into Business Process Models **2009**,		10
107	Realizing strategic fit within the business architecture: the design of a Process-Goal Alignment modeling and analysis technique. *Software and Systems Modeling*, **2019**, 18, 631-662	1.9	10
106	Process Mining and the ProM Framework: An Exploratory Survey. *Lecture Notes in Business Information Processing*, **2013**, 187-198	0.6	9
105	Policy-enabled goal-oriented requirements engineering for semantic Business Process Management. *International Journal of Intelligent Systems*, **2010**, 25, 784-812	8.4	9
104	Investigating Goal-Oriented Requirements Engineering for Business Processes. *Journal of Database Management*, **2013**, 24, 35-71	2.2	9
103	Measuring the Perceived Semantic Quality of Information Models. *Lecture Notes in Computer Science*, **2005**, 376-385	0.9	9
102	The Structured Process Modeling Method (SPMM) what is the best way for me to construct a process model?. *Decision Support Systems*, **2017**, 100, 57-76	5.6	8
101	A Goal-Oriented Requirements Engineering Method for Business Processes. *Lecture Notes in Computer Science*, **2011**, 29-43	0.9	8
100	Using the REA Ontology to Create Interoperability between E-Collaboration Modeling Standards. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2009**, 395-409	0.3	8
99	Towards a Service System Ontology for Service Science. *Lecture Notes in Computer Science*, **2011**, 250-264	0.9	8
98	Ontology-Based Model Abstraction **2019**,		8
97	Phishing Happens Beyond Technology: The Effects of Human Behaviors and Demographics on Each Step of a Phishing Process. *IEEE Access*, **2021**, 9, 44928-44949	3.5	8
96	Quality in Conceptual Modeling New Research Directions. *Lecture Notes in Computer Science*, **2003**, 243-250	0.9	7
95	Integrating Business Domain Ontologies with Early Requirements Modelling. *Lecture Notes in Computer Science*, **2008**, 282-291	0.9	7
94	Capability Sourcing Modeling. *Lecture Notes in Business Information Processing*, **2014**, 77-87	0.6	6

93	Functional Size Measurement of Multi-Layer Object-Oriented Conceptual Models. *Lecture Notes in Computer Science*, **2003**, 334-345	0.9	6
92	Evaluating and Improving the Visualisation of CHOOSE, an Enterprise Architecture Approach for SMEs. *Lecture Notes in Business Information Processing*, **2014**, 87-102	0.6	6
91	Object Class or Association Class? Testing the User Effect on Cardinality Interpretation. *Lecture Notes in Computer Science*, **2005**, 33-42	0.9	6
90	The Development and Experimental Evaluation of a Focused Business Model Representation. *Business and Information Systems Engineering*, **2015**, 57, 61-71	3.8	5
89	Supporting and assisting the execution of flexible healthcare processes **2015**,		5
88	Evaluating a functional size measurement method for Web applications: an empirical analysis		5
87	Evaluating the effect of inheritance on the modifiability of object-oriented business domain models		5
86	Architecting business process maps. *Computer Science and Information Systems*, **2020**, 17, 117-139	0.8	5
85	The Quest for Know-How, Know-Why, Know-What and Know-Who: Using KAOS for Enterprise Modelling. *Lecture Notes in Computer Science*, **2011**, 29-40	0.9	5
84	An Android Tablet Tool for Enterprise Architecture Modeling in Small and Medium-Sized Enterprises. *Lecture Notes in Business Information Processing*, **2013**, 145-160	0.6	5
83	Towards an Ontology and Modeling Approach for Service Science. *Lecture Notes in Business Information Processing*, **2013**, 285-291	0.6	5
82	Improving the Reuse Possibilities of the Behavioral Aspects of Object-Oriented Domain Models. *Lecture Notes in Computer Science*, **2000**, 423-439	0.9	5
81	Discovering health-care processes using DeciClareMiner. *Health Systems*, **2018**, 7, 195-211	2.3	4
80	Mapping semantically enriched Formal Tropos to business process models **2009**,		4
79	Towards a Decision Tool for Choosing a Business Process Maturity Model. *Lecture Notes in Computer Science*, **2012**, 78-87	0.9	4
78	Merging Computer Log Files for Process Mining: An Artificial Immune System Technique. *Lecture Notes in Business Information Processing*, **2012**, 99-110	0.6	4
77	BACTERIAL MULTIDRUG RESISTANCE MEDIATED BY ABC TRANSPORTERS **2003**, 243-262		4
76	TOWARDS A FRAMEWORK FOR CONCEPTUAL MODELLING QUALITY **2005**, 1-18		4

75	An Enterprise Ontology Based Conceptual Modeling Grammar for Representing Value Chain and Supply Chain Scripts. *International Journal of Conceptual Structures and Smart Applications*, **2014**, 2, 18-35		4
74	Process Evolution in a Distributed Process Execution Environment. *International Journal of Information System Modeling and Design*, **2013**, 4, 65-90	0.8	4
73	Service Systems. *SpringerBriefs in Computer Science*, **2014**,	0.4	4
72	Service-Dominant Strategic Sourcing: Value Creation Versus Cost Saving. *Lecture Notes in Business Information Processing*, **2016**, 30-44	0.6	4
71	Development of Software Tool Support for Enterprise Architecture in Small and Medium-Sized Enterprises. *Lecture Notes in Computer Science*, **2013**, 87-98	0.9	4
70	On the use of a Segmentally Additive Proximity Structure to Measure Object Class Life Cycle Complexity **1999**, 61-79		4
69	Information Quality, System Quality and Information System Effectiveness: Introduction to QoIS 06. *Lecture Notes in Computer Science*, **2006**, 325-328	0.9	4
68	Defining and Validating Measures for Conceptual Data Model Quality. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2002**, 724-727	0.3	4
67	Verification of Change in a Fragmented Event-Based Process Coordination Environment. *IEEE Transactions on Services Computing*, **2014**, 7, 501-514	4.8	3
66	Conceptual modeling using domain ontologies **2010**,		3
65	Ambiguity in user stories: A systematic literature review. *Information and Software Technology*, **2022**, 145, 106824	3.4	3
64	A Petri Net Formalization of a Publish-Subscribe Process System. *SSRN Electronic Journal*,	1	3
63	Distance Measures for Information System Reengineering. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2000**, 387-400	0.3	3
62	Creation of Multiple Conceptual Models from User Stories A Natural Language Processing Approach. *Lecture Notes in Computer Science*, **2019**, 47-57	0.9	3
61	Decentralized Event-Based Orchestration. *Lecture Notes in Business Information Processing*, **2011**, 695-706	6.6	3
60	Designing Value Co-creation with the Value Management Platform. *Lecture Notes in Business Information Processing*, **2018**, 399-413	0.6	3
59	Automated conceptual model clustering: a relator-centric approach. *Software and Systems Modeling* , **2021**, 1-25	1.9	3
58	Experimental Research on Conceptual Modeling: What Should We Be Doing and Why?. *Lecture Notes in Computer Science*, **2006**, 544-547	0.9	3

57	A Generic Framework for Flexible and Data-Aware Business Process Engines. *Lecture Notes in Business Information Processing*, **2019**, 201-213	0.6	2
56	Phishing Attacks Root Causes. *Lecture Notes in Computer Science*, **2018**, 187-202	0.9	2
55	Value-Driven Strategic Sourcing Based on Service-Dominant Logic. *Service Science*, **2017**, 9, 275-287	2.2	2
54	The Effects of Construct Redundancy on Readers' Understanding of Conceptual Models. *Journal of Database Management*, **2017**, 28, 1-25	2.2	2
53	Advanced Information Systems Engineering Workshops. *Lecture Notes in Business Information Processing*, **2014**,	0.6	2
52	Enterprise Information Systems of the Future. *Lecture Notes in Business Information Processing*, **2013**,	0.6	2
51	COCOMO II as Productivity Measurement: A Case Study at KBC. *SSRN Electronic Journal*, **2008**,	1	2
50	Conceptual Modeling of Accounting Information Systems: A Comparative Study of REA and ER Diagrams. *Lecture Notes in Computer Science*, **2003**, 152-164	0.9	2
49	The Use of the Concept of Event in Enterprise Ontologies and Requirements Engineering Literature. *SSRN Electronic Journal*,	1	2
48	Quantitative Approaches in Object-Oriented Software Engineering. *Lecture Notes in Computer Science*, **2002**, 147-153	0.9	2
47	Enterprise Modelling of Digital Innovation in Strategies, Services and Processes. *Lecture Notes in Business Information Processing*, **2019**, 721-732	0.6	2
46	Introducing Service-oriented Organizational Structure for Capability Sourcing. *Lecture Notes in Business Information Processing*, **2014**, 82-91	0.6	2
45	Generating Business Process Recommendations with a Population-Based Meta-Heuristic. *Lecture Notes in Business Information Processing*, **2015**, 516-528	0.6	2
44	Integrating Computer Log Files for Process Mining: A Genetic Algorithm Inspired Technique. *Lecture Notes in Computer Science*, **2011**, 282-293	0.9	2
43	Towards a Process Model for Service Systems. *Lecture Notes in Business Information Processing*, **2012**, 1-15	0.6	2
42	Cognitive Aspects of Structured Process Modeling. *Lecture Notes in Business Information Processing*, **2013**, 168-173	0.6	2
41	The Design of a Modeling Technique to Analyze the Impact of Process Simulation Throughout the Business Architecture. *Lecture Notes in Business Information Processing*, **2017**, 37-52	0.6	2
40	3D vs. 4D Ontologies in Enterprise Modeling. *Lecture Notes in Computer Science*, **2014**, 13-22	0.9	2

39	Comparing Digital Platform Types in the Platform Economy. *Lecture Notes in Computer Science*, **2021**, 417-431	0.9	2
38	Exploring Automated GDPR-Compliance in Requirements Engineering: A Systematic Mapping Study. *IEEE Access*, **2021**, 9, 66542-66559	3.5	2
37	Sharing Platform Ontology Development: Proof-of-Concept. *Sustainability*, **2022**, 14, 2076	3.6	2
36	How quickly do we learn conceptual models?. *European Journal of Information Systems*, **2019**, 28, 663-686	6.4	1
35	Service Oriented Enterprise Engineering: Applying Viable System Approach (vSa) in Enterprise Engineering for Sourcing Decision Making **2013**,		1
34	Towards Model-Based Strategic Sourcing. *Lecture Notes in Business Information Processing*, **2015**, 29-51	0.6	1
33	Putting Business into Business Process Models **2008**,		1
32	Further Analysis on the Evaluation of a Size Measure for Web Applications **2006**,		1
31	Measures for object-event interactions		1
30	Analogical reuse of structural and behavioural aspects of event-based object-oriented domain models		1
29	A Systematic Literature Review on the Quality of UML Models310-334		1
28	Towards a privacy impact assessment methodology to support the requirements of the general data protection regulation in a big data analytics context: A systematic literature review. *Computer Law and Security Review*, **2022**, 44, 105640	3	1
27	Domain Ontology for Digital Marketplaces. *Lecture Notes in Computer Science*, **2019**, 191-200	0.9	1
26	Towards a Reference Ontology for Digital Platforms. *Lecture Notes in Computer Science*, **2020**, 289-302	0.9	1
25	Relational Contexts and Conceptual Model Clustering. *Lecture Notes in Business Information Processing*, **2020**, 211-227	0.6	1
24	Conceptual Frameworks. *SpringerBriefs in Computer Science*, **2014**, 15-33	0.4	1
23	Towards a Structured Process Modeling Method: Building the Prescriptive Modeling Theory. *Lecture Notes in Business Information Processing*, **2017**, 168-179	0.6	1
22	A Simulation Model Articulation of the REA Ontology. *Lecture Notes in Computer Science*, **2009**, 554-563	0.9	1

21	Experimental Evaluation of an Ontology-Driven Enterprise Modeling Language. *Lecture Notes in Computer Science*, **2011**, 163-172	0.9	1
20	Towards a Strategy-Oriented Value Modeling Language: Identifying Strategic Elements of the VDML Meta-model. *Lecture Notes in Computer Science*, **2013**, 454-462	0.9	1
19	White-Box Service Systems. *SpringerBriefs in Computer Science*, **2014**, 1-14	0.4	1
18	Integrated Declarative Process and Decision Discovery of the Emergency Care Process. *Information Systems Frontiers*, **2020**, 1	4	1
17	Comparing strategies to generate experience-based clinical process recommendations that leverage similarity to historic data **2019**,		1
16	COVID-19 and Phishing: Effects of Human Emotions, Behavior, and Demographics on the Success of Phishing Attempts During the Pandemic. *IEEE Access*, **2021**, 9, 121916-121929	3.5	1
15	Enterprise architecture management as a solution for addressing general data protection regulation requirements in a big data context: a systematic mapping study. *Information Systems and E-Business Management*, **2021**, 19, 313-362	2.6	0
14	Systematic Literature Mapping of User Story Research. *IEEE Access*, **2022**, 1-1	3.5	0
13	Understanding Business Domain Models72-106		
12	Early Identification of Potential Distributed Ledger Technology Business Cases Using e3value Models. *Lecture Notes in Computer Science*, **2019**, 70-80	0.9	
11	An Experience in Modelling Business Process Architecture. *Communications in Computer and Information Science*, **2019**, 119-126	0.3	
10	Simplicity is not Simple: How Business Architecture in One of Belgium Biggest Companies Can Be Simple and Easy-to-Use. *Lecture Notes in Business Information Processing*, **2015**, 341-355	0.6	
9	An Enterprise Ontology Based Conceptual Modeling Grammar for Representing Value Chain and Supply Chain Scripts **2016**, 119-137		
8	Simulating Liquidity in Value and Supply Chains. *Lecture Notes in Business Information Processing*, **2009**, 40-54	0.6	
7	Rewiring Strategies for Changing Environments. *Advances in Intelligent and Soft Computing*, **2010**, 45-53		
6	Distributed Event-Based Process Execution - Assessing Feasibility and Flexibility. *Lecture Notes in Business Information Processing*, **2011**, 133-147	0.6	
5	Research Note. *Journal of Database Management*, **2012**, 23, 50-64	2.2	
4	The LSS-USDL Model. *SpringerBriefs in Computer Science*, **2014**, 35-53	0.4	

3	Service-Oriented Enterprise Engineering. *International Journal of Information Systems in the Service Sector*, **2018**, 10, 20-40	0.7
2	Information security and privacy in hospitals: a literature mapping and review of research gaps.. *Informatics for Health and Social Care*, **2022**, 1-17	2.7
1	A Method for Ontology-Driven Minimum Viable Platform Development. *Lecture Notes in Business Information Processing*, **2022**, 253-266	0.6