

# Geert Poels

## List of Publications by Year in Descending Order

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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.

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	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. <i>Computer Law and Security Review</i> , <b>2022</b> , 44, 105640	3	1
145	Ambiguity in user stories: A systematic literature review. <i>Information and Software Technology</i> , <b>2022</b> , 145, 106824	3.4	3
144	Sharing Platform Ontology Development: Proof-of-Concept. <i>Sustainability</i> , <b>2022</b> , 14, 2076	3.6	2
143	Information security and privacy in hospitals: a literature mapping and review of research gaps.. <i>Informatics for Health and Social Care</i> , <b>2022</b> , 1-17	2.7	
142	Systematic Literature Mapping of User Story Research. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	0
141	A Method for Ontology-Driven Minimum Viable Platform Development. <i>Lecture Notes in Business Information Processing</i> , <b>2022</b> , 253-266	0.6	
140	COVID-19 and Phishing: Effects of Human Emotions, Behavior, and Demographics on the Success of Phishing Attempts During the Pandemic. <i>IEEE Access</i> , <b>2021</b> , 9, 121916-121929	3.5	1
139	Enterprise architecture management as a solution for addressing general data protection regulation requirements in a big data context: a systematic mapping study. <i>Information Systems and E-Business Management</i> , <b>2021</b> , 19, 313-362	2.6	0
138	Comparing Digital Platform Types in the Platform Economy. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 417-431	0.9	2
137	Exploring Automated GDPR-Compliance in Requirements Engineering: A Systematic Mapping Study. <i>IEEE Access</i> , <b>2021</b> , 9, 66542-66559	3.5	2
136	Phishing Happens Beyond Technology: The Effects of Human Behaviors and Demographics on Each Step of a Phishing Process. <i>IEEE Access</i> , <b>2021</b> , 9, 44928-44949	3.5	8
135	Automated conceptual model clustering: a relator-centric approach. <i>Software and Systems Modeling</i> , <b>2021</b> , 1-25	1.9	3
134	Architecting business process maps. <i>Computer Science and Information Systems</i> , <b>2020</b> , 17, 117-139	0.8	5
133	Towards a Reference Ontology for Digital Platforms. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 289-302	0.9	1
132	Relational Contexts and Conceptual Model Clustering. <i>Lecture Notes in Business Information Processing</i> , <b>2020</b> , 211-227	0.6	1
131	Integrated Declarative Process and Decision Discovery of the Emergency Care Process. <i>Information Systems Frontiers</i> , <b>2020</b> , 1	4	1
130	A Generic Framework for Flexible and Data-Aware Business Process Engines. <i>Lecture Notes in Business Information Processing</i> , <b>2019</b> , 201-213	0.6	2

129	How quickly do we learn conceptual models?. <i>European Journal of Information Systems</i> , <b>2019</b> , 28, 663-680	0.4	1
128	Enterprise Modelling of Digital Innovation in Strategies, Services and Processes. <i>Lecture Notes in Business Information Processing</i> , <b>2019</b> , 721-732	0.6	2
127	Domain Ontology for Digital Marketplaces. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 191-200	0.9	1
126	Early Identification of Potential Distributed Ledger Technology Business Cases Using e3value Models. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 70-80	0.9	
125	An Experience in Modelling Business Process Architecture. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 119-126	0.3	
124	Creation of Multiple Conceptual Models from User Stories [A Natural Language Processing Approach. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 47-57	0.9	3
123	Comparing strategies to generate experience-based clinical process recommendations that leverage similarity to historic data <b>2019</b> ,		1
122	Ontology-Based Model Abstraction <b>2019</b> ,		8
121	Realizing strategic fit within the business architecture: the design of a Process-Goal Alignment modeling and analysis technique. <i>Software and Systems Modeling</i> , <b>2019</b> , 18, 631-662	1.9	10
120	Phishing Attacks Root Causes. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 187-202	0.9	2
119	Discovering health-care processes using DeciClareMiner. <i>Health Systems</i> , <b>2018</b> , 7, 195-211	2.3	4
118	Service-Oriented Enterprise Engineering. <i>International Journal of Information Systems in the Service Sector</i> , <b>2018</b> , 10, 20-40	0.7	
117	Designing Value Co-creation with the Value Management Platform. <i>Lecture Notes in Business Information Processing</i> , <b>2018</b> , 399-413	0.6	3
116	The Structured Process Modeling Method (SPMM) what is the best way for me to construct a process model?. <i>Decision Support Systems</i> , <b>2017</b> , 100, 57-76	5.6	8
115	Value-Driven Strategic Sourcing Based on Service-Dominant Logic. <i>Service Science</i> , <b>2017</b> , 9, 275-287	2.2	2
114	Towards a decision-aware declarative process modeling language for knowledge-intensive processes. <i>Expert Systems With Applications</i> , <b>2017</b> , 87, 316-334	7.8	19
113	The Effects of Construct Redundancy on Readers' Understanding of Conceptual Models. <i>Journal of Database Management</i> , <b>2017</b> , 28, 1-25	2.2	2
112	Evaluating Business Process Maturity Models. <i>Journal of the Association for Information Systems</i> , <b>2017</b> , 18, 461-486	1.8	18

111	Towards a Structured Process Modeling Method: Building the Prescriptive Modeling Theory. <i>Lecture Notes in Business Information Processing</i> , <b>2017</b> , 168-179	0.6	1
110	The Design of a Modeling Technique to Analyze the Impact of Process Simulation Throughout the Business Architecture. <i>Lecture Notes in Business Information Processing</i> , <b>2017</b> , 37-52	0.6	2
109	CHOOSE: Towards a metamodel for enterprise architecture in small and medium-sized enterprises. <i>Information Systems Frontiers</i> , <b>2016</b> , 18, 781-818	4	12
108	Mixed-Paradigm Process Modeling with Intertwined State Spaces. <i>Business and Information Systems Engineering</i> , <b>2016</b> , 58, 19-29	3.8	24
107	Service-Dominant Strategic Sourcing: Value Creation Versus Cost Saving. <i>Lecture Notes in Business Information Processing</i> , <b>2016</b> , 30-44	0.6	4
106	An Enterprise Ontology Based Conceptual Modeling Grammar for Representing Value Chain and Supply Chain Scripts <b>2016</b> , 119-137		
105	The Development and Experimental Evaluation of a Focused Business Model Representation. <i>Business and Information Systems Engineering</i> , <b>2015</b> , 57, 61-71	3.8	5
104	A visual analysis of the process of process modeling. <i>Information Systems and E-Business Management</i> , <b>2015</b> , 13, 147-190	2.6	27
103	The Structured Process Modeling Theory (SPMT) a cognitive view on why and how modelers benefit from structuring the process of process modeling. <i>Information Systems Frontiers</i> , <b>2015</b> , 17, 1401-1425	4	17
102	Supporting and assisting the execution of flexible healthcare processes <b>2015</b> ,		5
101	Ontology-driven conceptual modeling: A systematic literature mapping and review. <i>Applied Ontology</i> , <b>2015</b> , 10, 197-227	1.4	18
100	Towards Model-Based Strategic Sourcing. <i>Lecture Notes in Business Information Processing</i> , <b>2015</b> , 29-51	0.6	1
99	Generating Business Process Recommendations with a Population-Based Meta-Heuristic. <i>Lecture Notes in Business Information Processing</i> , <b>2015</b> , 516-528	0.6	2
98	Enhancing Declarative Process Models with DMN Decision Logic. <i>Lecture Notes in Business Information Processing</i> , <b>2015</b> , 151-165	0.6	18
97	Simplicity is not Simple: How Business Architecture in One of Belgium's Biggest Companies Can Be Simple and Easy-to-Use. <i>Lecture Notes in Business Information Processing</i> , <b>2015</b> , 341-355	0.6	
96	Verification of Change in a Fragmented Event-Based Process Coordination Environment. <i>IEEE Transactions on Services Computing</i> , <b>2014</b> , 7, 501-514	4.8	3
95	Improving the quality of the Heuristics Miner in ProM 6.2. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 7678-7690	7.8	12
94	A conceptual framework and classification of capability areas for business process maturity. <i>Enterprise Information Systems</i> , <b>2014</b> , 8, 188-224	3.5	75

93	Merging event logs for process mining: A rule based merging method and rule suggestion algorithm. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 7291-7306	7.8	21
92	Advanced Information Systems Engineering Workshops. <i>Lecture Notes in Business Information Processing</i> , <b>2014</b> ,	0.6	2
91	Enterprise Architecture for Small and Medium-Sized Enterprises: A Starting Point for Bringing EA to SMEs, Based on Adoption Models. <i>Progress in IS</i> , <b>2014</b> , 67-96	0.9	15
90	Process Fragmentation, distribution and execution using an event-based interaction scheme. <i>Journal of Systems and Software</i> , <b>2014</b> , 89, 170-192	3.3	17
89	An Enterprise Ontology Based Conceptual Modeling Grammar for Representing Value Chain and Supply Chain Scripts. <i>International Journal of Conceptual Structures and Smart Applications</i> , <b>2014</b> , 2, 18-35		4
88	Introducing Service-oriented Organizational Structure for Capability Sourcing. <i>Lecture Notes in Business Information Processing</i> , <b>2014</b> , 82-91	0.6	2
87	Capability Sourcing Modeling. <i>Lecture Notes in Business Information Processing</i> , <b>2014</b> , 77-87	0.6	6
86	Service Systems. <i>SpringerBriefs in Computer Science</i> , <b>2014</b> ,	0.4	4
85	Conceptual Frameworks. <i>SpringerBriefs in Computer Science</i> , <b>2014</b> , 15-33	0.4	1
84	Evaluating and Improving the Visualisation of CHOOSE, an Enterprise Architecture Approach for SMEs. <i>Lecture Notes in Business Information Processing</i> , <b>2014</b> , 87-102	0.6	6
83	The LSS-USDL Model. <i>SpringerBriefs in Computer Science</i> , <b>2014</b> , 35-53	0.4	
82	White-Box Service Systems. <i>SpringerBriefs in Computer Science</i> , <b>2014</b> , 1-14	0.4	1
81	3D vs. 4D Ontologies in Enterprise Modeling. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 13-22	0.9	2
80	Invariant conditions in value system simulation models. <i>Decision Support Systems</i> , <b>2013</b> , 56, 275-287	5.6	11
79	Choosing the right business process maturity model. <i>Information and Management</i> , <b>2013</b> , 50, 466-488	6.6	53
78	Service Oriented Enterprise Engineering: Applying Viable System Approach (vSa) in Enterprise Engineering for Sourcing Decision Making <b>2013</b> ,		1
77	Enterprise Information Systems of the Future. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> ,	0.6	2
76	Process Mining and the ProM Framework: An Exploratory Survey. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 187-198	0.6	9

75	Investigating Goal-Oriented Requirements Engineering for Business Processes. <i>Journal of Database Management</i> , <b>2013</b> , 24, 35-71	2.2	9
74	Process Evolution in a Distributed Process Execution Environment. <i>International Journal of Information System Modeling and Design</i> , <b>2013</b> , 4, 65-90	0.8	4
73	Visualizing the Process of Process Modeling with PPMCharts. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 744-755	0.6	11
72	Cognitive Aspects of Structured Process Modeling. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 168-173	0.6	2
71	Development of Software Tool Support for Enterprise Architecture in Small and Medium-Sized Enterprises. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 87-98	0.9	4
70	An Android Tablet Tool for Enterprise Architecture Modeling in Small and Medium-Sized Enterprises. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 145-160	0.6	5
69	Towards an Ontology and Modeling Approach for Service Science. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 285-291	0.6	5
68	Towards a Strategy-Oriented Value Modeling Language: Identifying Strategic Elements of the VDML Meta-model. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 454-462	0.9	1
67	A conceptual modeling quality framework. <i>Software Quality Journal</i> , <b>2012</b> , 20, 201-228	1.2	79
66	Tying Process Model Quality to the Modeling Process: The Impact of Structuring, Movement, and Speed. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 33-48	0.9	33
65	Track and Trace Future, Present, and Past Product and Money Flows with a Resource-Event-Agent Model. <i>Information Systems Management</i> , <b>2012</b> , 29, 123-136	3.1	13
64	Towards a Decision Tool for Choosing a Business Process Maturity Model. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 78-87	0.9	4
63	Merging Computer Log Files for Process Mining: An Artificial Immune System Technique. <i>Lecture Notes in Business Information Processing</i> , <b>2012</b> , 99-110	0.6	4
62	Towards a Process Model for Service Systems. <i>Lecture Notes in Business Information Processing</i> , <b>2012</b> , 1-15	0.6	2
61	Research Note. <i>Journal of Database Management</i> , <b>2012</b> , 23, 50-64	2.2	
60	Understanding Business Domain Models. <i>Journal of Database Management</i> , <b>2011</b> , 22, 69-101	2.2	16
59	The pragmatic quality of Resources- Events-Agents diagrams: an experimental evaluation. <i>Information Systems Journal</i> , <b>2011</b> , 21, 63-89	5.9	13
58	Defining business process maturity. A journey towards excellence. <i>Total Quality Management and Business Excellence</i> , <b>2011</b> , 22, 1119-1137	2.7	73

57	A Goal-Oriented Requirements Engineering Method for Business Processes. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 29-43	0.9	8
56	Decentralized Event-Based Orchestration. <i>Lecture Notes in Business Information Processing</i> , <b>2011</b> , 695-706	0.6	3
55	Integrating Computer Log Files for Process Mining: A Genetic Algorithm Inspired Technique. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 282-293	0.9	2
54	The Quest for Know-How, Know-Why, Know-What and Know-Who: Using KAOS for Enterprise Modelling. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 29-40	0.9	5
53	Experimental Evaluation of an Ontology-Driven Enterprise Modeling Language. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 163-172	0.9	1
52	Towards a Service System Ontology for Service Science. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 250-264	0.9	8
51	Distributed Event-Based Process Execution - Assessing Feasibility and Flexibility. <i>Lecture Notes in Business Information Processing</i> , <b>2011</b> , 133-147	0.6	3
50	Conceptual modeling using domain ontologies <b>2010</b> ,		3
49	Policy-enabled goal-oriented requirements engineering for semantic Business Process Management. <i>International Journal of Intelligent Systems</i> , <b>2010</b> , 25, 784-812	8.4	9
48	The impact of structural complexity on the understandability of UML statechart diagrams. <i>Information Sciences</i> , <b>2010</b> , 180, 2209-2220	7.7	38
47	A Conceptual Model of Service Exchange in Service-Dominant Logic. <i>Lecture Notes in Business Information Processing</i> , <b>2010</b> , 224-238	0.6	12
46	The Resource-Service-System Model for Service Science. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 117-126	0.9	13
45	Rewiring Strategies for Changing Environments. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 45-53		
44	Mapping semantically enriched Formal Tropos to business process models <b>2009</b> ,		4
43	A family of experiments to evaluate a functional size measurement procedure for Web applications. <i>Journal of Systems and Software</i> , <b>2009</b> , 82, 253-269	3.3	15
42	Practical Challenges for Methods Transforming i* Goal Models into Business Process Models <b>2009</b> ,		10
41	Using the REA Ontology to Create Interoperability between E-Collaboration Modeling Standards. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , <b>2009</b> , 395-409	0.3	8
40	A Simulation Model Articulation of the REA Ontology. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 554-563	0.9	1

39	Simulating Liquidity in Value and Supply Chains. <i>Lecture Notes in Business Information Processing</i> , <b>2009</b> , 40-54	0.6	
38	Putting Business into Business Process Models <b>2008</b> ,		1
37	Positioning and Formalizing the REA Enterprise Ontology. <i>Journal of Information Systems</i> , <b>2008</b> , 22, 219-248	2.48	21
36	COCOMO II as Productivity Measurement: A Case Study at KBC. <i>SSRN Electronic Journal</i> , <b>2008</b> ,	1	2
35	Defining and validating metrics for assessing the understandability of entity-Relationship diagrams. <i>Data and Knowledge Engineering</i> , <b>2008</b> , 64, 534-557	1.5	52
34	Integrating Business Domain Ontologies with Early Requirements Modelling. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 282-291	0.9	7
33	Evaluating quality of conceptual modelling scripts based on user perceptions. <i>Data and Knowledge Engineering</i> , <b>2007</b> , 63, 701-724	1.5	63
32	Experimental evaluation of an object-oriented function point measurement procedure. <i>Information and Software Technology</i> , <b>2007</b> , 49, 366-380	3.4	14
31	Towards improving the navigability of Web applications: a model-driven approach. <i>European Journal of Information Systems</i> , <b>2007</b> , 16, 420-447	6.4	16
30	Ontology-Driven Business Modelling: Improving the Conceptual Representation of the REA Ontology. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 407-422	0.9	12
29	Towards Ontology-Driven Information Systems: Redesign and Formalization of the REA Ontology <b>2007</b> , 245-259		13
28	Further Analysis on the Evaluation of a Size Measure for Web Applications <b>2006</b> ,		1
27	A functional size measurement method for object-oriented conceptual schemas: design and evaluation issues. <i>Software and Systems Modeling</i> , <b>2006</b> , 5, 48-71	1.9	20
26	Experimental Research on Conceptual Modeling: What Should We Be Doing and Why?. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 544-547	0.9	3
25	Evaluating Quality of Conceptual Models Based on User Perceptions. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 54-67	0.9	13
24	Information Quality, System Quality and Information System Effectiveness: Introduction to QoS06. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 325-328	0.9	4
23	TOWARDS A FRAMEWORK FOR CONCEPTUAL MODELLING QUALITY <b>2005</b> , 1-18		4
22	Measuring the Perceived Semantic Quality of Information Models. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 376-385	0.9	9



21	Object Class or Association Class? Testing the User Effect on Cardinality Interpretation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 33-42	0.9	6
20	Conceptual Modeling of Accounting Information Systems: A Comparative Study of REA and ER Diagrams. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 152-164	0.9	2
19	Quality in Conceptual Modeling [New Research Directions. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 243-250	0.9	7
18	BACTERIAL MULTIDRUG RESISTANCE MEDIATED BY ABC TRANSPORTERS <b>2003</b> , 243-262		4
17	Functional Size Measurement of Multi-Layer Object-Oriented Conceptual Models. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 334-345	0.9	6
16	Quantitative Approaches in Object-Oriented Software Engineering. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 147-153	0.9	2
15	Defining and Validating Measures for Conceptual Data Model Quality. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , <b>2002</b> , 724-727	0.3	4
14	Distance-based software measurement: necessary and sufficient properties for software measures. <i>Information and Software Technology</i> , <b>2000</b> , 42, 35-46	3.4	62
13	Distance Measures for Information System Reengineering. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , <b>2000</b> , 387-400	0.3	3
12	Improving the Reuse Possibilities of the Behavioral Aspects of Object-Oriented Domain Models. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 423-439	0.9	5
11	Measures for Assessing Dynamic Complexity Aspects of Object-Oriented Conceptual Schemes. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 499-512	0.9	12
10	On the use of a Segmentally Additive Proximity Structure to Measure Object Class Life Cycle Complexity <b>1999</b> , 61-79		4
9	Comments on "Property-based software engineering measurement: refining the additivity properties". <i>IEEE Transactions on Software Engineering</i> , <b>1997</b> , 23, 190-197	3.5	12
8	Evaluating a functional size measurement method for Web applications: an empirical analysis		5
7	Measures for object-event interactions		1
6	Analogical reuse of structural and behavioural aspects of event-based object-oriented domain models		1
5	Evaluating the effect of inheritance on the modifiability of object-oriented business domain models		5
4	Understanding Business Domain Models72-106		

3	A Systematic Literature Review on the Quality of UML Models	310-334		1
2	The Use of the Concept of Event in Enterprise Ontologies and Requirements Engineering Literature. <i>SSRN Electronic Journal</i> ,		1	2
1	A Petri Net Formalization of a Publish-Subscribe Process System. <i>SSRN Electronic Journal</i> ,		1	3