

Geert Poels

List of Publications by Year in descending order

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Version: 2024-02-01

140
papers

1,909
citations

361045

20
h-index

360668

35
g-index

157
all docs

157
docs citations

157
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	A conceptual modeling quality framework. <i>Software Quality Journal</i> , 2012, 20, 201-228.	1.4	106
2	Defining business process maturity. A journey towards excellence. <i>Total Quality Management and Business Excellence</i> , 2011, 22, 1119-1137.	2.4	100
3	A conceptual framework and classification of capability areas for business process maturity. <i>Enterprise Information Systems</i> , 2014, 8, 188-224.	3.3	95
4	Distance-based software measurement: necessary and sufficient properties for software measures. <i>Information and Software Technology</i> , 2000, 42, 35-46.	3.0	83
5	Evaluating quality of conceptual modelling scripts based on user perceptions. <i>Data and Knowledge Engineering</i> , 2007, 63, 701-724.	2.1	76
6	Choosing the right business process maturity model. <i>Information and Management</i> , 2013, 50, 466-488.	3.6	71
7	Defining and validating metrics for assessing the understandability of entity-relationship diagrams. <i>Data and Knowledge Engineering</i> , 2008, 64, 534-557.	2.1	67
8	The impact of structural complexity on the understandability of UML statechart diagrams. <i>Information Sciences</i> , 2010, 180, 2209-2220.	4.0	50
9	Tying Process Model Quality to the Modeling Process: The Impact of Structuring, Movement, and Speed. <i>Lecture Notes in Computer Science</i> , 2012, , 33-48.	1.0	37
10	Evaluating Business Process Maturity Models. <i>Journal of the Association for Information Systems</i> , 2017, 18, 461-486.	2.4	36
11	A visual analysis of the process of process modeling. <i>Information Systems and E-Business Management</i> , 2015, 13, 147-190.	2.2	33
12	Phishing Happens Beyond Technology: The Effects of Human Behaviors and Demographics on Each Step of a Phishing Process. <i>IEEE Access</i> , 2021, 9, 44928-44949.	2.6	33
13	A functional size measurement method for object-oriented conceptual schemas: design and evaluation issues. <i>Software and Systems Modeling</i> , 2006, 5, 48-71.	2.2	28
14	Ontology-driven conceptual modeling: A systematic literature mapping and review. <i>Applied Ontology</i> , 2015, 10, 197-227.	1.0	28
15	Merging event logs for process mining: A rule based merging method and rule suggestion algorithm. <i>Expert Systems With Applications</i> , 2014, 41, 7291-7306.	4.4	27
16	Mixed-Paradigm Process Modeling with Intertwined State Spaces. <i>Business and Information Systems Engineering</i> , 2016, 58, 19-29.	4.0	27
17	Positioning and Formalizing the REA Enterprise Ontology. <i>Journal of Information Systems</i> , 2008, 22, 219-248.	0.5	25
18	Towards a decision-aware declarative process modeling language for knowledge-intensive processes. <i>Expert Systems With Applications</i> , 2017, 87, 316-334.	4.4	25

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19	Process fragmentation, distribution and execution using an event-based interaction scheme. Journal of Systems and Software, 2014, 89, 170-192.	3.3	24
20	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.	4.1	24
21	Improving the quality of the Heuristics Miner in ProM 6.2. Expert Systems With Applications, 2014, 41, 7678-7690.	4.4	22
22	Towards improving the navigability of Web applications: a model-driven approach. European Journal of Information Systems, 2007, 16, 420-447.	5.5	20
23	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	20
24	The pragmatic quality of Resources- Events-Agents diagrams: an experimental evaluation. Information Systems Journal, 2011, 21, 63-89.	4.1	20
25	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.	0.5	19
26	Enhancing Declarative Process Models with DMN Decision Logic. Lecture Notes in Business Information Processing, 2015, , 151-165.	0.8	19
27	CHOOSE: Towards a metamodel for enterprise architecture in small and medium-sized enterprises. Information Systems Frontiers, 2016, 18, 781-818.	4.1	18
28	Evaluating Quality of Conceptual Models Based on User Perceptions. Lecture Notes in Computer Science, 2006, , 54-67.	1.0	18
29	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.	2.2	17
30	Measures for Assessing Dynamic Complexity Aspects of Object-Oriented Conceptual Schemes. Lecture Notes in Computer Science, 2000, , 499-512.	1.0	17
31	Towards Ontology-Driven Information Systems: Redesign and Formalization of the REA Ontology. , 2007, , 245-259.		17
32	Experimental evaluation of an object-oriented function point measurement procedure. Information and Software Technology, 2007, 49, 366-380.	3.0	16
33	Understanding Business Domain Models. Journal of Database Management, 2011, 22, 69-101.	1.0	16
34	Track and Trace Future, Present, and Past Product and Money Flows with a Resource-Event-Agent Model. Information Systems Management, 2012, 29, 123-136.	3.2	16
35	Ontology-Based Model Abstraction. , 2019, , .		16
36	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.	2.6	16

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37	Comments on "Property-based software engineering measurement: refining the additivity properties". IEEE Transactions on Software Engineering, 1997, 23, 190-197.	4.3	15
38	Practical Challenges for Methods Transforming i* Goal Models into Business Process Models. , 2009, , .		15
39	Process Mining and the ProM Framework: An Exploratory Survey. Lecture Notes in Business Information Processing, 2013, , 187-198.	0.8	15
40	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.	3.5	14
41	Ontology-Driven Business Modelling: Improving the Conceptual Representation of the REA Ontology. Lecture Notes in Computer Science, 2007, , 407-422.	1.0	13
42	Invariant conditions in value system simulation models. Decision Support Systems, 2013, 56, 275-287.	3.5	13
43	Ambiguity in user stories: A systematic literature review. Information and Software Technology, 2022, 145, 106824.	3.0	13
44	A Conceptual Model of Service Exchange in Service-Dominant Logic. Lecture Notes in Business Information Processing, 2010, , 224-238.	0.8	12
45	Towards a Service System Ontology for Service Science. Lecture Notes in Computer Science, 2011, , 250-264.	1.0	12
46	Investigating Goal-Oriented Requirements Engineering for Business Processes. Journal of Database Management, 2013, 24, 35-71.	1.0	12
47	Visualizing the Process of Process Modeling with PPMCharts. Lecture Notes in Business Information Processing, 2013, , 744-755.	0.8	11
48	Sharing Platform Ontology Development: Proof-of-Concept. Sustainability, 2022, 14, 2076.	1.6	11
49	Policy-enabled goal-oriented requirements engineering for semantic Business Process Management. International Journal of Intelligent Systems, 2010, 25, 784-812.	3.3	10
50	Evaluating the effect of inheritance on the modifiability of object-oriented business domain models. , 0, , .		10
51	A Goal-Oriented Requirements Engineering Method for Business Processes. Lecture Notes in Computer Science, 2011, , 29-43.	1.0	9
52	Using the REA Ontology to Create Interoperability between E-Collaboration Modeling Standards. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 395-409.	0.2	9
53	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.	1.3	9
54	Conceptual modeling using domain ontologies. , 2010, , .		8

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55	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.	2.2	8
56	Object Class or Association Class? Testing the User Effect on Cardinality Interpretation. Lecture Notes in Computer Science, 2005, , 33-42.	1.0	8
57	Integrating Business Domain Ontologies with Early Requirements Modelling. Lecture Notes in Computer Science, 2008, , 282-291.	1.0	8
58	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.	1.0	8
59	Evaluating a functional size measurement method for web applications:an empirical analysis 1. , 0, , .		7
60	Automated conceptual model clustering: a relator-centric approach. Software and Systems Modeling, 2022, 21, 1363-1387.	2.2	7
61	Defining and Validating Measures for Conceptual Data Model Quality. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2002, , 724-727.	0.2	7
62	Capability Sourcing Modeling. Lecture Notes in Business Information Processing, 2014, , 77-87.	0.8	7
63	Functional Size Measurement of Multi-Layer Object-Oriented Conceptual Models. Lecture Notes in Computer Science, 2003, , 334-345.	1.0	7
64	Evaluating and Improving the Visualisation of CHOOSE, an Enterprise Architecture Approach for SMEs. Lecture Notes in Business Information Processing, 2014, , 87-102.	0.8	7
65	Creation of Multiple Conceptual Models from User Stories “ A Natural Language Processing Approach. Lecture Notes in Computer Science, 2019, , 47-57.	1.0	7
66	Systematic Literature Mapping of User Story Research. IEEE Access, 2022, 10, 51723-51746.	2.6	7
67	Mapping semantically enriched Formal Tropos to business process models. , 2009, , .		6
68	Towards a Decision Tool for Choosing a Business Process Maturity Model. Lecture Notes in Computer Science, 2012, , 78-87.	1.0	6
69	Supporting and assisting the execution of flexible healthcare processes. , 2015, , .		6
70	The Development and Experimental Evaluation of a Focused Business Model Representation. Business and Information Systems Engineering, 2015, 57, 61-71.	4.0	6
71	Integrated Declarative Process and Decision Discovery of the Emergency Care Process. Information Systems Frontiers, 2022, 24, 305-327.	4.1	6
72	Exploring Automated GDPR-Compliance in Requirements Engineering: A Systematic Mapping Study. IEEE Access, 2021, 9, 66542-66559.	2.6	6

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73	Architecting business process maps. <i>Computer Science and Information Systems</i> , 2020, 17, 117-139.	0.7	6
74	Information security and privacy in hospitals: a literature mapping and review of research gaps. <i>Informatics for Health and Social Care</i> , 2023, 48, 30-46.	1.4	6
75	BACTERIAL MULTIDRUG RESISTANCE MEDIATED BY ABC TRANSPORTERS. , 2003, , 243-262.		5
76	TOWARDS A FRAMEWORK FOR CONCEPTUAL MODELLING QUALITY. , 2005, , 1-18.		5
77	Putting Business into Business Process Models. , 2008, , .		5
78	Merging Computer Log Files for Process Mining: An Artificial Immune System Technique. <i>Lecture Notes in Business Information Processing</i> , 2012, , 99-110.	0.8	5
79	Discovering health-care processes using DeciClareMiner. <i>Health Systems</i> , 2018, 7, 195-211.	0.9	5
80	How quickly do we learn conceptual models?. <i>European Journal of Information Systems</i> , 2019, 28, 663-680.	5.5	5
81	A Generic Framework for Flexible and Data-Aware Business Process Engines. <i>Lecture Notes in Business Information Processing</i> , 2019, , 201-213.	0.8	5
82	Comparing Digital Platform Types in the Platform Economy. <i>Lecture Notes in Computer Science</i> , 2021, , 417-431.	1.0	5
83	Improving the Reuse Possibilities of the Behavioral Aspects of Object-Oriented Domain Models. <i>Lecture Notes in Computer Science</i> , 2000, , 423-439.	1.0	5
84	Service Systems. <i>SpringerBriefs in Computer Science</i> , 2014, , .	0.2	5
85	An Android Tablet Tool for Enterprise Architecture Modeling in Small and Medium-Sized Enterprises. <i>Lecture Notes in Business Information Processing</i> , 2013, , 145-160.	0.8	5
86	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> , 2014, 2, 18-35.	0.1	5
87	Towards an Ontology and Modeling Approach for Service Science. <i>Lecture Notes in Business Information Processing</i> , 2013, , 285-291.	0.8	5
88	Verification of Change in a Fragmented Event-Based Process Coordination Environment. <i>IEEE Transactions on Services Computing</i> , 2014, 7, 501-514.	3.2	4
89	Value-Driven Strategic Sourcing Based on Service-Dominant Logic. <i>Service Science</i> , 2017, 9, 275-287.	0.9	4
90	Phishing Attacks Root Causes. <i>Lecture Notes in Computer Science</i> , 2018, , 187-202.	1.0	4

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91	Experimental Research on Conceptual Modeling: What Should We Be Doing and Why?. Lecture Notes in Computer Science, 2006, , 544-547.	1.0	4
92	Generating Business Process Recommendations with a Population-Based Meta-Heuristic. Lecture Notes in Business Information Processing, 2015, , 516-528.	0.8	4
93	Service-Dominant Strategic Sourcing: Value Creation Versus Cost Saving. Lecture Notes in Business Information Processing, 2016, , 30-44.	0.8	4
94	Integrating Computer Log Files for Process Mining: A Genetic Algorithm Inspired Technique. Lecture Notes in Computer Science, 2011, , 282-293.	1.0	4
95	Development of Software Tool Support for Enterprise Architecture in Small and Medium-Sized Enterprises. Lecture Notes in Computer Science, 2013, , 87-98.	1.0	4
96	A Petri Net Formalization of a Publish-Subscribe Process System. SSRN Electronic Journal, 0, , .	0.4	4
97	Process Evolution in a Distributed Process Execution Environment. International Journal of Information System Modeling and Design, 2013, 4, 65-90.	0.9	4
98	Early Identification of Potential Distributed Ledger Technology Business Cases Using e3value Models. Lecture Notes in Computer Science, 2019, , 70-80.	1.0	4
99	Designing Value Co-creation with the Value Management Platform. Lecture Notes in Business Information Processing, 2018, , 399-413.	0.8	3
100	Comparing strategies to generate experience-based clinical process recommendations that leverage similarity to historic data. , 2019, , .		3
101	Decentralized Event-Based Orchestration. Lecture Notes in Business Information Processing, 2011, , 695-706.	0.8	3
102	Towards a Process Model for Service Systems. Lecture Notes in Business Information Processing, 2012, , 1-15.	0.8	3
103	The Use of the Concept of Event in Enterprise Ontologies and Requirements Engineering Literature. SSRN Electronic Journal, 0, , .	0.4	3
104	Distance Measures for Information System Reengineering. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2000, , 387-400.	0.2	3
105	3D vs. 4D Ontologies in Enterprise Modeling. Lecture Notes in Computer Science, 2014, , 13-22.	1.0	3
106	Towards a Reference Ontology for Digital Platforms. Lecture Notes in Computer Science, 2020, , 289-302.	1.0	3
107	A Systematic Literature Review on the Quality of UML Models. , 0, , 310-334.		3
108	Measures for object-event interactions. , 0, , .		2

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109	Conceptual Modeling of Accounting Information Systems: A Comparative Study of REA and ER Diagrams. Lecture Notes in Computer Science, 2003, , 152-164.	1.0	2
110	COCOMO II as Productivity Measurement: A Case Study at KBC. SSRN Electronic Journal, 0, , .	0.4	2
111	Enterprise Information Systems of the Future. Lecture Notes in Business Information Processing, 2013, , .	0.8	2
112	The Effects of Construct Redundancy on Readers' Understanding of Conceptual Models. Journal of Database Management, 2017, 28, 1-25.	1.0	2
113	Relational Contexts and Conceptual Model Clustering. Lecture Notes in Business Information Processing, 2020, , 211-227.	0.8	2
114	Introducing Service-oriented Organizational Structure for Capability Sourcing. Lecture Notes in Business Information Processing, 2014, , 82-91.	0.8	2
115	Cognitive Aspects of Structured Process Modeling. Lecture Notes in Business Information Processing, 2013, , 168-173.	0.8	2
116	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.	0.8	2
117	Analogical reuse of structural and behavioural aspects of event-based object-oriented domain models. , 0, , .		1
118	Further Analysis on the Evaluation of a Size Measure for Web Applications. , 2006, , .		1
119	Service Oriented Enterprise Engineering: Applying Viable System Approach (vSa) in Enterprise Engineering for Sourcing Decision Making. , 2013, , .		1
120	Towards Model-Based Strategic Sourcing. Lecture Notes in Business Information Processing, 2015, , 29-51.	0.8	1
121	Service-Oriented Enterprise Engineering. International Journal of Information Systems in the Service Sector, 2018, 10, 20-40.	0.2	1
122	Conceptual Frameworks. SpringerBriefs in Computer Science, 2014, , 15-33.	0.2	1
123	Towards a Structured Process Modeling Method: Building the Prescriptive Modeling Theory. Lecture Notes in Business Information Processing, 2017, , 168-179.	0.8	1
124	A Simulation Model Articulation of the REA Ontology. Lecture Notes in Computer Science, 2009, , 554-563.	1.0	1
125	Experimental Evaluation of an Ontology-Driven Enterprise Modeling Language. Lecture Notes in Computer Science, 2011, , 163-172.	1.0	1
126	Preface to IWCMQ 2003. Lecture Notes in Computer Science, 2003, , 79-79.	1.0	1

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127	Towards a Strategy-Oriented Value Modeling Language: Identifying Strategic Elements of the VDML Meta-model. Lecture Notes in Computer Science, 2013, , 454-462.	1.0	1
128	An Enterprise-ontology based Conceptual-modeling Grammar for Representing Value Chain and Supply Chain Scripts. , 2013, , .		1
129	White-Box Service Systems. SpringerBriefs in Computer Science, 2014, , 1-14.	0.2	1
130	Domain Ontology for Digital Marketplaces. Lecture Notes in Computer Science, 2019, , 191-200.	1.0	1
131	A Method for Ontology-Driven Minimum Viable Platform Development. Lecture Notes in Business Information Processing, 2022, , 253-266.	0.8	1
132	A Replicated Study on the Evaluation of a Size Measurement Procedure for Web Applications. , 2008, , .		0
133	Simulating Liquidity in Value and Supply Chains. Lecture Notes in Business Information Processing, 2009, , 40-54.	0.8	0
134	Rewiring Strategies for Changing Environments. Advances in Intelligent and Soft Computing, 2010, , 45-53.	0.2	0
135	Distributed Event-Based Process Execution - Assessing Feasibility and Flexibility. Lecture Notes in Business Information Processing, 2011, , 133-147.	0.8	0
136	The LSS-USDL Model. SpringerBriefs in Computer Science, 2014, , 35-53.	0.2	0
137	An Enterprise Ontology Based Conceptual Modeling Grammar for Representing Value Chain and Supply Chain Scripts. , 2016, , 119-137.		0
138	An Experience in Modelling Business Process Architecture. Communications in Computer and Information Science, 2019, , 119-126.	0.4	0
139	Understanding Business Domain Models. , 0, , 72-106.		0
140	Preface to QoS 2007. , 2007, , 191-191.		0