Barbara Weber

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.

158 papers	3,881 citations	33 h-index	58 g-index
177 ext. papers	4,407 ext. citations	1.4 avg, IF	5.54 L-index

#	Paper	IF	Citations
158	Change patterns and change support features Enhancing flexibility in process-aware information systems. *Data and Knowledge Engineering*, **2008**, 66, 438-466	1.5	377
157	Process Mining Manifesto. *Lecture Notes in Business Information Processing*, **2012**, 169-194	0.6	347
156	Enabling Flexibility in Process-Aware Information Systems **2012**,		283
155	Blockchains for Business Process Management - Challenges and Opportunities. *ACM Transactions on Management Information Systems*, **2018**, 9, 1-16	2	246
154	Refactoring large process model repositories. *Computers in Industry*, **2011**, 62, 467-486	11.6	149
153	The Computer-based Health Evaluation Software (CHES): a software for electronic patient-reported outcome monitoring. *BMC Medical Informatics and Decision Making*, **2012**, 12, 126	3.6	104
152	Supporting Flexible Processes through Recommendations Based on History. *Lecture Notes in Computer Science*, **2008**, 51-66	0.9	104
151	Imperative versus Declarative Process Modeling Languages: An Empirical Investigation. *Lecture Notes in Business Information Processing*, **2012**, 383-394	0.6	78
150	Change Patterns and Change Support Features in Process-Aware Information Systems. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2007**, 574-588	0.3	77
149	PROVIDING INTEGRATED LIFE CYCLE SUPPORT IN PROCESS-AWARE INFORMATION SYSTEMS. *International Journal of Cooperative Information Systems*, **2009**, 18, 115-165	0.6	76
148	CBRFlow: Enabling Adaptive Workflow Management Through Conversational Case-Based Reasoning. *Lecture Notes in Computer Science*, **2004**, 434-448	0.9	70
147	Time patterns for process-aware information systems. *Requirements Engineering*, **2014**, 19, 113-141	2.7	59
146	Beyond rigidity ynamic process lifecycle support. *Computer Science - Research and Development*, **2009**, 23, 47-65		58
145	Declarative versus Imperative Process Modeling Languages: The Issue of Understandability. *Lecture Notes in Business Information Processing*, **2009**, 353-366	0.6	57
144	Workflow Time Patterns for Process-Aware Information Systems. *Lecture Notes in Business Information Processing*, **2010**, 94-107	0.6	53
143	Integrating Process Learning and Process Evolution A Semantics Based Approach. *Lecture Notes in Computer Science*, **2005**, 252-267	0.9	52
142	Workflow management versus case handling **2008**,		50

141	Object-Aware Business Processes. *International Journal of Information System Modeling and Design*, **2011**, 2, 19-46	0.8	49
140	On the Formal Semantics of Change Patterns in Process-Aware Information Systems. *Lecture Notes in Computer Science*, **2008**, 279-293	0.9	44
139	User recommendations for the optimized execution of business processes. *Data and Knowledge Engineering*, **2013**, 86, 61-84	1.5	42
138	The Impact of Testcases on the Maintainability of Declarative Process Models. *Lecture Notes in Business Information Processing*, **2011**, 163-177	0.6	42
137	VIVACE: A framework for the systematic evaluation of variability support in process-aware information systems. *Information and Software Technology*, **2015**, 57, 248-276	3.4	41
136	Generating event logs from non-process-aware systems enabling business process mining. *Enterprise Information Systems*, **2011**, 5, 301-335	3.5	40
135	Investigating the effort of using business process management technology: Results from a controlled experiment. *Science of Computer Programming*, **2010**, 75, 292-310	1.1	40
134	The Declarative Approach to Business Process Execution: An Empirical Test. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2009**, 470-485	0.3	38
133	The Internet of Things Meets Business Process Management: A Manifesto. *IEEE Systems, Man, and Cybernetics Magazine*, **2020**, 6, 34-44	1.6	38
132	Tracing the Process of Process Modeling with Modeling Phase Diagrams. *Lecture Notes in Business Information Processing*, **2012**, 370-382	0.6	37
131	CCBRDriven Business Process Evolution. *Lecture Notes in Computer Science*, **2005**, 610-624	0.9	37
130	Investigating expressiveness and understandability of hierarchy in declarative business process models. *Software and Systems Modeling*, **2015**, 14, 1081-1103	1.9	36
129	Process time patterns: A formal foundation. *Information Systems*, **2016**, 57, 38-68	2.7	36
128	Balancing Flexibility and Security in Adaptive Process Management Systems. *Lecture Notes in Computer Science*, **2005**, 59-76	0.9	35
127	Understanding Declare models: strategies, pitfalls, empirical results. *Software and Systems Modeling*, **2016**, 15, 325-352	1.9	33
126	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
125	An integrated approach based on execution measures for the continuous improvement of business processes realized by services. *Information and Software Technology*, **2014**, 56, 134-162	3.4	30
124	Creating Declarative Process Models Using Test Driven Modeling Suite. *Lecture Notes in Computer Science*, **2012**, 16-32	0.9	30

123	Styles in business process modeling: an exploration and a model. *Software and Systems Modeling*, **2015**, 14, 1055-1080	1.9	29
122	Toward enhanced life-cycle support for declarative processes. *Journal of Software: Evolution and Process*, **2012**, 24, 285-302	1	28
121	Refactoring Process Models in Large Process Repositories. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2008**, 124-139	0.3	28
120	A visual analysis of the process of process modeling. *Information Systems and E-Business Management*, **2015**, 13, 147-190	2.6	27
119	Relaxed Compliance Notions in Adaptive Process Management Systems. *Lecture Notes in Computer Science*, **2008**, 232-247	0.9	27
118	Case-Base Maintenance for CCBR-Based Process Evolution. *Lecture Notes in Computer Science*, **2006** , 106-120	0.9	27
117	Beyond Brainstorming: Exploring Convergence in Teams. *Journal of Management Information Systems*, **2017**, 34, 939-969	5.3	26
116	Supporting the Optimized Execution of Business Processes through Recommendations. *Lecture Notes in Business Information Processing*, **2012**, 135-140	0.6	24
115	Towards Living Inter-organizational Processes **2013**,		23
114	Development of a screening tool for the identification of psychooncological treatment need in breast cancer patients. *Psycho-Oncology*, **2009**, 18, 974-83	3.9	23
113	Assessing the Impact of Hierarchy on Model Understandability A Cognitive Perspective. *Lecture Notes in Computer Science*, **2012**, 123-133	0.9	23
112	Alaska Simulator Toolset for Conducting Controlled Experiments on Process Flexibility. *Lecture Notes in Computer Science*, **2011**, 205-221	0.9	22
111	User Assistance during Process Execution - An Experimental Evaluation of Recommendation Strategies. *Lecture Notes in Business Information Processing*, **2011**, 134-145	0.6	21
110	How the Structuring of Domain Knowledge Helps Casual Process Modelers. *Lecture Notes in Computer Science*, **2010**, 445-451	0.9	21
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108	Model Driven Security for Inter-organizational Workflows in e-Government. *Lecture Notes in Computer Science*, **2005**, 122-133	0.9	19
107	Declarative versus Imperative Process Modeling Languages: The Issue of Maintainability. *Lecture Notes in Business Information Processing*, **2010**, 477-488	0.6	18
106	Are gender-associated differences in quality of life in colorectal cancer patients disease-specific?. *Quality of Life Research*, **2009**, 18, 547-55	3.7	18

105	Investigating the Process of Process Modeling with Eye Movement Analysis. *Lecture Notes in Business Information Processing*, **2013**, 438-450	0.6	18
104	Idea Convergence Quality in Open Innovation Crowdsourcing: A Cognitive Load Perspective. *Journal of Management Information Systems*, **2020**, 37, 349-376	5.3	16
103	Making the case for measuring mental effort **2012**,		16
102	How do humans inspect BPMN models: an exploratory study. *Software and Systems Modeling*, **2018**, 17, 655-673	1.9	15
101	Modeling Styles in Business Process Modeling. *Lecture Notes in Business Information Processing*, **2012**, 151-166	0.6	15
100	Towards Run-Time Flexibility for Process Families: Open Issues and Research Challenges. *Lecture Notes in Business Information Processing*, **2013**, 477-488	0.6	15
99	Enhancing Modeling and Change Support for Process Families through Change Patterns. *Lecture Notes in Business Information Processing*, **2013**, 246-260	0.6	14
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96	Effect of Linked Rules on Business Process Model Understanding. *Lecture Notes in Computer Science*, **2017**, 200-215	0.9	13
95	Towards IoT-driven Process Event Log Generation for Conformance Checking in Smart Factories **2020**,		13
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93	On the declarative paradigm in hybrid business process representations: A conceptual framework and a systematic literature study. *Information Systems*, **2020**, 91, 101505	2.7	12
92	Assessing event correlation in non-process-aware information systems. *Software and Systems Modeling*, **2012**, 13, 1117	1.9	12
91	Expressiveness and Understandability Considerations of Hierarchy in Declarative Business Process Models. *Lecture Notes in Business Information Processing*, **2012**, 167-181	0.6	12
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89	A linear time layout algorithm for business process models. *Journal of Visual Languages and Computing*, **2014**, 25, 117-132		11
88	Lost in Time and Space: States of High Arousal Disrupt Implicit Acquisition of Spatial and Sequential Context Information. *Frontiers in Behavioral Neuroscience*, **2017**, 11, 206	3.5	11

87	Exploring the Understandability of a Hybrid Process Design Artifact Based on DCR Graphs. *Lecture Notes in Business Information Processing*, **2019**, 69-84	0.6	11
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84	Process Evolution and Instance Migration **2012**, 253-295		10
83	Fixation Patterns During Process Model Creation: Initial Steps Toward Neuro-Adaptive Process Modeling Environments **2016**,		9
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80	Evaluating the Understandability of Hybrid Process Model Representations Using Eye Tracking: First Insights. *Lecture Notes in Business Information Processing*, **2019**, 475-481	0.6	9
79	A Qualitative Comparison of Approaches Supporting Business Process Variability. *Lecture Notes in Business Information Processing*, **2013**, 560-572	0.6	9
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74	Exploring the Modeling of Declarative Processes Using a Hybrid Approach. *Lecture Notes in Computer Science*, **2019**, 162-170	0.9	7
73	Using Physical Factory Simulation Models for Business Process Management Research. *Lecture Notes in Business Information Processing*, **2020**, 95-107	0.6	6
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71	Process Change Patterns: Recent Research, Use Cases, Research Directions **2013**, 397-404		6
70	Initial Insights into Exploratory Process Mining Practices. *Lecture Notes in Business Information Processing*, **2021**, 145-161	0.6	6

69	Time prediction on multi-perspective declarative business processes. *Knowledge and Information Systems*, **2018**, 57, 655-684	2.4	5
68	AristaFlow BPM Suite **2012**, 441-464		5
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66	Toward Obtaining Event Logs from Legacy Code. *Lecture Notes in Business Information Processing*, **2011**, 201-207	0.6	5
65	Business Process Compliance **2012**, 297-320		5
64	Styles in business process modeling: an exploration and a model (extended abstract) **2014**, 34, 39-39		5
63	Improving Exception Handling by Discovering Change Dependencies in Adaptive Process Management Systems. *Lecture Notes in Computer Science*, **2006**, 93-104	0.9	5
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60	CoPrA: A Process Analysis Technique to Investigate Collaboration in Groups **2012**,		4
59	Flexibility Issues in Process-Aware Information Systems **2012**, 43-55		4
58	Integrating event logs into KDM repositories **2012**,		4
57	Visualization of the Evolution of Layout Metrics for Business Process Models. *Lecture Notes in Business Information Processing*, **2017**, 449-460	0.6	4
56	Toward an Automated Labeling of Event Log Attributes. *Lecture Notes in Business Information Processing*, **2018**, 82-96	0.6	4
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53	Brain and autonomic nervous system activity measurement in software engineering: A systematic literature review. *Journal of Systems and Software*, **2021**, 178, 110946	3.3	4
52	Identifying Quality Issues in BPMN Models: an Exploratory Study. *Lecture Notes in Business Information Processing*, **2015**, 217-230	0.6	3

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50	How social distance of process designers affects the process of process modeling **2014**,		3
49	Opening the Black Box of Team Processes and Emergent States: A Literature Review and Agenda for Research on Team Facilitation **2014**,		3
48	An empirical comparison of static and dynamic business process mining **2011**,		3
47	Understanding Quality in Declarative Process Modeling Through the Mental Models of Experts. *Lecture Notes in Computer Science*, **2020**, 417-434	0.9	3
46	Process-Aware Information Systems **2012**, 9-42		3
45	The Influence of Cognitive Abilities and Cognitive Load on Business Process Models and Their Creation. *Lecture Notes in Information Systems and Organisation*, **2015**, 107-115	0.5	3
44	From analytical purposes to data visualizations: a decision process guided by a conceptual framework and eye tracking. *Software and Systems Modeling*, **2020**, 19, 531-554	1.9	3
43	OptBPPlanner: Automatic Generation of Optimized Business Process Enactment Plans **2013**, 429-442		2
42	Model Driven Security for Inter-Organizational Workflows in E-Governent **2007**, 233-253		2
41	Measuring and Explaining Cognitive Load During Design Activities: A Fine-Grained Approach. *Lecture Notes in Information Systems and Organisation*, **2018**, 47-53	0.5	2
40	The Impact of Modularization on the Understandability of Declarative Process Models: A Research Model. *Lecture Notes in Information Systems and Organisation*, **2020**, 133-144	0.5	2
39	Individual Creativity in Designing Business Processes. *Lecture Notes in Business Information Processing*, **2012**, 294-306	0.6	2
38	Neurophysiological Measurements in Higher Education: A Systematic Literature Review. *International Journal of Artificial Intelligence in Education*,1	2.5	2
37	The impact of working memory and the "process of process modelling" on model quality: Investigating experienced versus inexperienced modellers. *Scientific Reports*, **2016**, 6, 25561	4.9	2
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35	Exploring how users engage with hybrid process artifacts based on declarative process models: a behavioral analysis based on eye-tracking and think-aloud. *Software and Systems Modeling*, **2020**, 1	1.9	1
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31	Constraint-Based Process Models **2012**, 341-374		1
30	Object-Aware Business Processes **2013**, 1-29		1
29	The Choice Is Yours: The Role of Cognitive Processes for IT-Supported Idea Selection. *Lecture Notes in Information Systems and Organisation*, **2018**, 17-24	0.5	1
28	Who Is Behind the Model? Classifying Modelers Based on Pragmatic Model Features. *Lecture Notes in Computer Science*, **2018**, 322-338	0.9	1
27	Business process and rule integration approaches—An empirical analysis of model understanding. *Information Systems*, **2022**, 104, 101901	2.7	1
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25	Change Patterns and Change Support Features in Process-Aware Information Systems **2013**, 381-395		1
24	The Modeling Mind: Behavior Patterns in Process Modeling. *Lecture Notes in Business Information Processing*, **2014**, 1-16	0.6	1
23	Automatic Generation of Questionnaires for Supporting Users during the Execution of Declarative Business Process Models. *Lecture Notes in Business Information Processing*, **2014**, 146-158	0.6	1
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21	Process Mining Challenges Perceived by Analysts: An Interview Study. *Lecture Notes in Business Information Processing*, **2022**, 3-17	0.6	1
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19	Correlation of Business Activities Executed in Legacy Information Systems. *Communications in Computer and Information Science*, **2013**, 48-63	0.3	0
18	BPMN in healthcare: Challenges and best practices. *Information Systems*, **2022**, 107, 102013	2.7	0
17	Concretizing Loosely Specified Processes **2012**, 323-340		
16	Monitoring and Mining Flexible Processes **2012**, 219-251		

15	Existing Tool Support for Flexible Processes **2012**, 479-480	
14	User- and Data-Driven Processes **2012**, 377-403	
13	CONCEPT LOCATION MODELING THROUGH BUSINESS PROCESS VIEWS. *International Journal of Cooperative Information Systems*, **2013**, 22, 1350005	0.6
12	A Framework for Object-Aware Processes **2012**, 405-438	
11	Application of Lean and Agile Principles to Workflow Management. *Lecture Notes in Computer Science*, **2004**, 258-261	0.9
10	Towards a Software Architecture for Neurophysiological Experiments. *Lecture Notes in Information Systems and Organisation*, **2020**, 155-163	0.5
9	Alaska Simulator A Journey to Planning. *Lecture Notes in Business Information Processing*, **2009**, 253-254	0.6
8	Process Modeling and Flexibility-by-Design **2012**, 59-88	
7	Exception Handling **2012**, 127-151	
6	Process Configuration Support **2012**, 89-126	
5	Alaska Simulator Toolset **2012**, 465-477	
4	Change Patterns for Model Creation: Investigating the Role of Nesting Depth. *Lecture Notes in Computer Science*, **2013**, 198-204	0.9
3	End-to-End Process Extraction in Process Unaware Systems. *Lecture Notes in Business Information Processing*, **2013**, 162-173	0.6
2	Flexible runtime support of business processes under rolling planning horizons. *Expert Systems With Applications*, **2021**, 177, 114857	7.8
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