Barbara Weber

List of Publications by Year in Descending Order

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	Business process and rule integration approaches—An empirical analysis of model understanding. *Information Systems*, **2022**, 104, 101901	2.7	1
157	BPMN in healthcare: Challenges and best practices. *Information Systems*, **2022**, 107, 102013	2.7	0
156	Process Mining Challenges Perceived by Analysts: An Interview Study. *Lecture Notes in Business Information Processing*, **2022**, 3-17	0.6	1
155	Initial Insights into Exploratory Process Mining Practices. *Lecture Notes in Business Information Processing*, **2021**, 145-161	0.6	6
154	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
153	Flexible runtime support of business processes under rolling planning horizons. *Expert Systems With Applications*, **2021**, 177, 114857	7.8	
152	Idea Convergence Quality in Open Innovation Crowdsourcing: A Cognitive Load Perspective. *Journal of Management Information Systems*, **2020**, 37, 349-376	5.3	16
151	Supporting the Process of Learning and Teaching Process Models. *IEEE Transactions on Learning Technologies*, **2020**, 13, 552-566	4	4
150	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
149	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
148	Towards IoT-driven Process Event Log Generation for Conformance Checking in Smart Factories **2020**,		13
147	Towards a Software Architecture for Neurophysiological Experiments. *Lecture Notes in Information Systems and Organisation*, **2020**, 155-163	0.5	
146	Using Physical Factory Simulation Models for Business Process Management Research. *Lecture Notes in Business Information Processing*, **2020**, 95-107	0.6	6
145	Understanding Quality in Declarative Process Modeling Through the Mental Models of Experts. *Lecture Notes in Computer Science*, **2020**, 417-434	0.9	3
144	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
143	The Internet of Things Meets Business Process Management: A Manifesto. *IEEE Systems, Man, and Cybernetics Magazine*, **2020**, 6, 34-44	1.6	38
142	Mining reading patterns from eye-tracking data: method and demonstration. *Software and Systems Modeling*, **2020**, 19, 345-369	1.9	1

141	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
140	Learning process modeling phases from modeling interactions and eye tracking data. *Data and Knowledge Engineering*, **2019**, 121, 1-17	1.5	8
139	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
138	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
137	Exploring the Modeling of Declarative Processes Using a Hybrid Approach. *Lecture Notes in Computer Science*, **2019**, 162-170	0.9	7
136	Blockchains for Business Process Management - Challenges and Opportunities. *ACM Transactions on Management Information Systems*, **2018**, 9, 1-16	2	246
135	How do humans inspect BPMN models: an exploratory study. *Software and Systems Modeling*, **2018**, 17, 655-673	1.9	15
134	Detection and quantification of flow consistency in business process models. *Software and Systems Modeling*, **2018**, 17, 633-654	1.9	1
133	Time prediction on multi-perspective declarative business processes. *Knowledge and Information Systems*, **2018**, 57, 655-684	2.4	5
132	Mining Developers Workflows from IDE Usage. *Lecture Notes in Business Information Processing*, **2018**, 167-179	0.6	3
131	Clinical Processes - The Killer Application for Constraint-Based Process Interactions?. *Lecture Notes in Computer Science*, **2018**, 374-390	0.9	4
130	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
129	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
128	Who Is Behind the Model? Classifying Modelers Based on Pragmatic Model Features. *Lecture Notes in Computer Science*, **2018**, 322-338	0.9	1
127	Toward an Automated Labeling of Event Log Attributes. *Lecture Notes in Business Information Processing*, **2018**, 82-96	0.6	4
126	Effect of Linked Rules on Business Process Model Understanding. *Lecture Notes in Computer Science*, **2017**, 200-215	0.9	13
125	Studying the Creation of Design Artifacts. *Lecture Notes in Information Systems and Organisation*, **2017**, 115-122	0.5	1
124	Beyond Brainstorming: Exploring Convergence in Teams. *Journal of Management Information Systems*, **2017**, 34, 939-969	5.3	26

123	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
122	Visualization of the Evolution of Layout Metrics for Business Process Models. *Lecture Notes in Business Information Processing*, **2017**, 449-460	0.6	4
121	Eye Tracking Meets the Process of Process Modeling: A Visual Analytic Approach. *Lecture Notes in Business Information Processing*, **2017**, 461-473	0.6	6
120	Understanding Declare models: strategies, pitfalls, empirical results. *Software and Systems Modeling*, **2016**, 15, 325-352	1.9	33
119	Process time patterns: A formal foundation. *Information Systems*, **2016**, 57, 38-68	2.7	36
118	Fixation Patterns During Process Model Creation: Initial Steps Toward Neuro-Adaptive Process Modeling Environments **2016**,		9
117	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
116	Brainstorming is Just the Beginning: Effects of Convergence Techniques on Satisfaction, Perceived Usefulness of Moderation, and Shared Understanding in Teams **2015**,		1
115	Identifying Quality Issues in BPMN Models: an Exploratory Study. *Lecture Notes in Business Information Processing*, **2015**, 217-230	0.6	3
114	Investigating expressiveness and understandability of hierarchy in declarative business process models. *Software and Systems Modeling*, **2015**, 14, 1081-1103	1.9	36
113	Styles in business process modeling: an exploration and a model. *Software and Systems Modeling*, **2015**, 14, 1055-1080	1.9	29
112	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
111	A visual analysis of the process of process modeling. *Information Systems and E-Business Management*, **2015**, 13, 147-190	2.6	27
110	Generating optimized configurable business process models in scenarios subject to uncertainty. *Information and Software Technology*, **2015**, 57, 571-594	3.4	20
109	Measuring Cognitive Load During Process Model Creation. *Lecture Notes in Information Systems and Organisation*, **2015**, 129-136	0.5	8
108	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
107	A linear time layout algorithm for business process models. *Journal of Visual Languages and Computing*, **2014**, 25, 117-132		11
106	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

105	How social distance of process designers affects the process of process modeling **2014**,		3
104	Opening the Black Box of Team Processes and Emergent States: A Literature Review and Agenda for Research on Team Facilitation **2014**,		3
103	Time patterns for process-aware information systems. *Requirements Engineering*, **2014**, 19, 113-141	2.7	59
102	How Advanced Change Patterns Impact the Process of Process Modeling. *Lecture Notes in Business Information Processing*, **2014**, 17-32	0.6	4
101	Styles in business process modeling: an exploration and a model (extended abstract) **2014**, 34, 39-39		5
100	The Modeling Mind: Behavior Patterns in Process Modeling. *Lecture Notes in Business Information Processing*, **2014**, 1-16	0.6	1
99	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
98	User recommendations for the optimized execution of business processes. *Data and Knowledge Engineering*, **2013**, 86, 61-84	1.5	42
97	Macrocognition in Collaboration: Analyzing Processes of Team Knowledge Building with CoPrA. *Group Decision and Negotiation*, **2013**, 22, 915-942	2.5	10
96	Generating Multi-objective Optimized Business Process Enactment Plans. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2013**, 99-115	0.3	9
95	Continuous Improvement of Business Processes Realized by Services Based on Execution Measurement. *Communications in Computer and Information Science*, **2013**, 64-81	0.3	1
94	Enhancing Modeling and Change Support for Process Families through Change Patterns. *Lecture Notes in Business Information Processing*, **2013**, 246-260	0.6	14
93	Towards Living Inter-organizational Processes **2013**,		23
92	OptBPPlanner: Automatic Generation of Optimized Business Process Enactment Plans **2013**, 429-442		2
91	AUTOMATIC GENERATION OF OPTIMIZED BUSINESS PROCESS MODELS FROM CONSTRAINT-BASED SPECIFICATIONS. *International Journal of Cooperative Information Systems*, **2013**, 22, 1350009	0.6	7
90	CONCEPT LOCATION MODELING THROUGH BUSINESS PROCESS VIEWS. *International Journal of Cooperative Information Systems*, **2013**, 22, 1350005	0.6	
89	Object-Aware Business Processes **2013**, 1-29		1
88	Empirical Evaluation of Test Driven Modeling. *International Journal of Information System Modeling and Design*, **2013**, 4, 23-43	0.8	9

87	Investigating the Process of Process Modeling with Eye Movement Analysis. *Lecture Notes in Business Information Processing*, **2013**, 438-450	0.6	18
86	Towards Run-Time Flexibility for Process Families: Open Issues and Research Challenges. *Lecture Notes in Business Information Processing*, **2013**, 477-488	0.6	15
85	A Qualitative Comparison of Approaches Supporting Business Process Variability. *Lecture Notes in Business Information Processing*, **2013**, 560-572	0.6	9
84	Visualizing the Process of Process Modeling with PPMCharts. *Lecture Notes in Business Information Processing*, **2013**, 744-755	0.6	11
83	Change Patterns in Use: A Critical Evaluation. *Lecture Notes in Business Information Processing*, **2013** , 261-276	0.6	4
82	Making Sense of Declarative Process Models: Common Strategies and Typical Pitfalls. *Lecture Notes in Business Information Processing*, **2013**, 2-17	0.6	13
81	Change Patterns for Model Creation: Investigating the Role of Nesting Depth. *Lecture Notes in Computer Science*, **2013**, 198-204	0.9	
80	Process Change Patterns: Recent Research, Use Cases, Research Directions **2013**, 397-404		6
79	Correlation of Business Activities Executed in Legacy Information Systems. *Communications in Computer and Information Science*, **2013**, 48-63	0.3	0
78	Change Patterns and Change Support Features in Process-Aware Information Systems **2013**, 381-395		1
77	End-to-End Process Extraction in Process Unaware Systems. *Lecture Notes in Business Information Processing*, **2013**, 162-173	0.6	
76	Using Concurrent Task Trees for Stakeholder-centered Modeling and Visualization of Business Processes. *Communications in Computer and Information Science*, **2012**, 237-251	0.3	14
75	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
74	Toward enhanced life-cycle support for declarative processes. *Journal of Software: Evolution and Process*, **2012**, 24, 285-302	1	28
73	Enabling Flexibility in Process-Aware Information Systems **2012**,		283
72	CoPrA: A Process Analysis Technique to Investigate Collaboration in Groups **2012**,		4
71	Assessing event correlation in non-process-aware information systems. *Software and Systems Modeling*, **2012**, 13, 1117	1.9	12
70	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

69	AristaFlow BPM Suite **2012**, 441-464		5
68	Ad hoc Changes of Process Instances **2012**, 153-217		0
67	Optimized Time Management for Declarative Workflows. *Lecture Notes in Business Information Processing*, **2012**, 195-210	0.6	8
66	Concretizing Loosely Specified Processes **2012**, 323-340		
65	Modeling Styles in Business Process Modeling. *Lecture Notes in Business Information Processing*, **2012**, 151-166	0.6	15
64	Process Evolution and Instance Migration **2012**, 253-295		10
63	Monitoring and Mining Flexible Processes **2012**, 219-251		
62	Existing Tool Support for Flexible Processes **2012**, 479-480		
61	User- and Data-Driven Processes **2012**, 377-403		
60	Flexibility Issues in Process-Aware Information Systems **2012**, 43-55		4
59	Integrating event logs into KDM repositories **2012**,		4
58	A Framework for Object-Aware Processes **2012**, 405-438		
57	Constraint-Based Process Models **2012**, 341-374		1
56	Making the case for measuring mental effort **2012**,		16
55	Supporting the Optimized Execution of Business Processes through Recommendations. *Lecture Notes in Business Information Processing*, **2012**, 135-140	0.6	24
54	Process Mining Manifesto. *Lecture Notes in Business Information Processing*, **2012**, 169-194	0.6	347
53	Tracing the Process of Process Modeling with Modeling Phase Diagrams. *Lecture Notes in Business Information Processing*, **2012**, 370-382	0.6	37
52	Imperative versus Declarative Process Modeling Languages: An Empirical Investigation. *Lecture Notes in Business Information Processing*, **2012**, 383-394	0.6	78

51	Assessing the Impact of Hierarchy on Model Understandability A Cognitive Perspective. *Lecture Notes in Computer Science*, **2012**, 123-133	0.9	23
50	Creating Declarative Process Models Using Test Driven Modeling Suite. *Lecture Notes in Computer Science*, **2012**, 16-32	0.9	30
49	Business Process Compliance **2012**, 297-320		5
48	Process-Aware Information Systems **2012**, 9-42		3
47	Individual Creativity in Designing Business Processes. *Lecture Notes in Business Information Processing*, **2012**, 294-306	0.6	2
46	Expressiveness and Understandability Considerations of Hierarchy in Declarative Business Process Models. *Lecture Notes in Business Information Processing*, **2012**, 167-181	0.6	12
45	Process Modeling and Flexibility-by-Design **2012**, 59-88		
44	Exception Handling **2012**, 127-151		
43	Process Configuration Support **2012**, 89-126		
42	Empirical Assessment of Business Model Transformations Based on Model Simulation. *Lecture Notes in Computer Science*, **2012**, 137-151	0.9	1
41	Alaska Simulator Toolset **2012**, 465-477		
40	Refactoring large process model repositories. *Computers in Industry*, **2011**, 62, 467-486	11.6	149
39	Generating event logs from non-process-aware systems enabling business process mining. *Enterprise Information Systems*, **2011**, 5, 301-335	3.5	40
38	User Assistance during Process Execution - An Experimental Evaluation of Recommendation Strategies. *Lecture Notes in Business Information Processing*, **2011**, 134-145	0.6	21
37	An empirical comparison of static and dynamic business process mining **2011**,		3
36	Object-Aware Business Processes. *International Journal of Information System Modeling and Design*, **2011**, 2, 19-46	0.8	49
35	Alaska Simulator Toolset for Conducting Controlled Experiments on Process Flexibility. *Lecture Notes in Computer Science*, **2011**, 205-221	0.9	22
34	Toward Obtaining Event Logs from Legacy Code. *Lecture Notes in Business Information Processing*, **2011**, 201-207	0.6	5

33	The Impact of Testcases on the Maintainability of Declarative Process Models. *Lecture Notes in Business Information Processing*, **2011**, 163-177	0.6	42
32	Workflow Time Patterns for Process-Aware Information Systems. *Lecture Notes in Business Information Processing*, **2010**, 94-107	0.6	53
31	Declarative versus Imperative Process Modeling Languages: The Issue of Maintainability. *Lecture Notes in Business Information Processing*, **2010**, 477-488	0.6	18
30	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
29	How the Structuring of Domain Knowledge Helps Casual Process Modelers. *Lecture Notes in Computer Science*, **2010**, 445-451	0.9	21
28	PROVIDING INTEGRATED LIFE CYCLE SUPPORT IN PROCESS-AWARE INFORMATION SYSTEMS. *International Journal of Cooperative Information Systems*, **2009**, 18, 115-165	0.6	76
27	Beyond rigidity □dynamic process lifecycle support. *Computer Science - Research and Development*, **2009**, 23, 47-65		58
26	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
25	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
24	Declarative versus Imperative Process Modeling Languages: The Issue of Understandability. *Lecture Notes in Business Information Processing*, **2009**, 353-366	0.6	57
23	The Declarative Approach to Business Process Execution: An Empirical Test. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2009**, 470-485	0.3	38
22	Alaska Simulator □A Journey to Planning. *Lecture Notes in Business Information Processing*, **2009**, 253-254	0.6	
21	Supporting Flexible Processes through Recommendations Based on History. *Lecture Notes in Computer Science*, **2008**, 51-66	0.9	104
20	Workflow management versus case handling **2008**,		50
19	Change patterns and change support features □Enhancing flexibility in process-aware information systems. *Data and Knowledge Engineering*, **2008**, 66, 438-466	1.5	377
18	Challenges for Business Process Intelligence: Discussions at the BPI Workshop 2007. *Lecture Notes in Computer Science*, **2008**, 5-10	0.9	5
17	Refactoring Process Models in Large Process Repositories. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, **2008**, 124-139	0.3	28
16	Relaxed Compliance Notions in Adaptive Process Management Systems. *Lecture Notes in Computer Science*, **2008**, 232-247	0.9	27

15	On the Formal Semantics of Change Patterns in Process-Aware Information Systems. *Lecture Notes in Computer Science*, **2008**, 279-293	0.9	44
14	Model Driven Security for Inter-Organizational Workflows in E-Governent **2007**, 233-253		2
13	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
12	Towards a Framework for the Agile Mining of Business Processes. *Lecture Notes in Computer Science*, **2006**, 191-202	0.9	12
11	Case-Base Maintenance for CCBR-Based Process Evolution. *Lecture Notes in Computer Science*, **2006** , 106-120	0.9	27
10	Improving Exception Handling by Discovering Change Dependencies in Adaptive Process Management Systems. *Lecture Notes in Computer Science*, **2006**, 93-104	0.9	5
9	Towards the Agile Management of Business Processes. *Lecture Notes in Computer Science*, **2005**, 409-419	0.9	14
8	Model Driven Security for Inter-organizational Workflows in e-Government. *Lecture Notes in Computer Science*, **2005**, 122-133	0.9	19
7	CCBRDriven Business Process Evolution. *Lecture Notes in Computer Science*, **2005**, 610-624	0.9	37
6	Integrating Process Learning and Process Evolution A Semantics Based Approach. *Lecture Notes in Computer Science*, **2005**, 252-267	0.9	52
5	Balancing Flexibility and Security in Adaptive Process Management Systems. *Lecture Notes in Computer Science*, **2005**, 59-76	0.9	35
4	CBRFlow: Enabling Adaptive Workflow Management Through Conversational Case-Based Reasoning. *Lecture Notes in Computer Science*, **2004**, 434-448	0.9	70
3	Application of Lean and Agile Principles to Workflow Management. *Lecture Notes in Computer Science*, **2004**, 258-261	0.9	
2	Neurophysiological Measurements in Higher Education: A Systematic Literature Review. *International Journal of Artificial Intelligence in Education*,1	2.5	2
1	Model-driven management of BPMN-based business process families. *Software and Systems Modeling*,1	1.9	