

# Dirk Fahland

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3350318/publications.pdf>

Version: 2024-02-01

69  
papers

3,139  
citations

172207

29  
h-index

155451

55  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Process Mining Manifesto. Lecture Notes in Business Information Processing, 2012, , 169-194.	0.8	546
2	Discovering Block-Structured Process Models from Event Logs - A Constructive Approach. Lecture Notes in Computer Science, 2013, , 311-329.	1.0	322
3	Discovering Block-Structured Process Models from Event Logs Containing Infrequent Behaviour. Lecture Notes in Business Information Processing, 2014, , 66-78.	0.8	197
4	Scalable process discovery and conformance checking. Software and Systems Modeling, 2018, 17, 599-631.	2.2	141
5	Model repair "aligning process models to reality. Information Systems, 2015, 47, 220-243.	2.4	127
6	Analysis on demand: Instantaneous soundness checking of industrial business process models. Data and Knowledge Engineering, 2011, 70, 448-466.	2.1	120
7	Discovering Block-Structured Process Models from Incomplete Event Logs. Lecture Notes in Computer Science, 2014, , 91-110.	1.0	91
8	Instantaneous Soundness Checking of Industrial Business Process Models. Lecture Notes in Computer Science, 2009, , 278-293.	1.0	87
9	Modeling and Enacting Complex Data Dependencies in Business Processes. Lecture Notes in Computer Science, 2013, , 171-186.	1.0	77
10	Declarative versus Imperative Process Modeling Languages: The Issue of Understandability. Lecture Notes in Business Information Processing, 2009, , 353-366.	0.8	72
11	Discovering Interacting Artifacts from ERP Systems. IEEE Transactions on Services Computing, 2015, 8, 861-873.	3.2	70
12	Where Did I Misbehave? Diagnostic Information in Compliance Checking. Lecture Notes in Computer Science, 2012, , 262-278.	1.0	70
13	Simplifying discovered process models in a controlled manner. Information Systems, 2013, 38, 585-605.	2.4	52
14	Artifact Lifecycle Discovery. International Journal of Cooperative Information Systems, 2015, 24, 1550001.	0.6	50
15	Repairing Process Models to Reflect Reality. Lecture Notes in Computer Science, 2012, , 229-245.	1.0	48
16	Scalable Process Discovery with Guarantees. Lecture Notes in Business Information Processing, 2015, , 85-101.	0.8	48
17	The imprecisions of precision measures in process mining. Information Processing Letters, 2018, 135, 1-8.	0.4	44
18	Linking data and process perspectives for conformance analysis. Computers and Security, 2018, 73, 172-193.	4.0	41

#	ARTICLE	IF	CITATIONS
19	Multi-Dimensional Event Data in Graph Databases. Journal on Data Semantics, 2021, 10, 109-141.	2.0	40
20	Styles in business process modeling: an exploration and a model. Software and Systems Modeling, 2015, 14, 1055-1080.	2.2	39
21	Tracing the Process of Process Modeling with Modeling Phase Diagrams. Lecture Notes in Business Information Processing, 2012, , 370-382.	0.8	39
22	The relationship between workflow graphs and free-choice workflow nets. Information Systems, 2015, 47, 197-219.	2.4	38
23	Tying Process Model Quality to the Modeling Process: The Impact of Structuring, Movement, and Speed. Lecture Notes in Computer Science, 2012, , 33-48.	1.0	37
24	Conformance Checking Based on Partially Ordered Event Data. Lecture Notes in Business Information Processing, 2015, , 75-88.	0.8	35
25	Maximal Structuring of Acyclic Process Models. Computer Journal, 2014, 57, 12-35.	1.5	34
26	Describing Behavior of Processes with Many-to-Many Interactions. Lecture Notes in Computer Science, 2019, , 3-24.	1.0	34
27	Using Life Cycle Information in Process Discovery. Lecture Notes in Business Information Processing, 2016, , 204-217.	0.8	34
28	Behavioral Conformance of Artifact-Centric Process Models. Lecture Notes in Business Information Processing, 2011, , 37-49.	0.8	30
29	Declarative versus Imperative Process Modeling Languages: The Issue of Maintainability. Lecture Notes in Business Information Processing, 2010, , 477-488.	0.8	27
30	Mining branching-time scenarios. , 2013, , .		26
31	Automating data exchange in process choreographies. Information Systems, 2015, 53, 296-329.	2.4	26
32	Unbiased, Fine-Grained Description of Processes Performance from Event Data. Lecture Notes in Computer Science, 2018, , 139-157.	1.0	25
33	Exploring Processes and Deviations. Lecture Notes in Business Information Processing, 2015, , 304-316.	0.8	24
34	Separating Compliance Management and Business Process Management. Lecture Notes in Business Information Processing, 2012, , 459-464.	0.8	24
35	Process Mining for Six Sigma. Business and Information Systems Engineering, 2021, 63, 277-300.	4.0	21
36	How the Structuring of Domain Knowledge Helps Casual Process Modelers. Lecture Notes in Computer Science, 2010, , 445-451.	1.0	21

#	ARTICLE	IF	CITATIONS
37	Handling Duplicated Tasks in Process Discovery by Refining Event Labels. Lecture Notes in Computer Science, 2016, , 90-107.	1.0	19
38	Detecting Deviating Behaviors Without Models. Lecture Notes in Business Information Processing, 2016, , 126-139.	0.8	19
39	Modeling Styles in Business Process Modeling. Lecture Notes in Business Information Processing, 2012, , 151-166.	0.8	18
40	Diagnostic Information for Compliance Checking of Temporal Compliance Requirements. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 304-320.	0.2	18
41	Conformance checking in healthcare based on partially ordered event data. , 2014, , .		18
42	Semi-supervised Log Pattern Detection and Exploration Using Event Concurrence and Contextual Information. Lecture Notes in Computer Science, 2017, , 154-174.	1.0	17
43	Compliance Checking of Data-Aware and Resource-Aware Compliance Requirements. Lecture Notes in Computer Science, 2014, , 237-257.	1.0	17
44	Process Mining over Multiple Behavioral Dimensions with Event Knowledge Graphs. Lecture Notes in Business Information Processing, 2022, , 274-319.	0.8	15
45	Information-preserving abstractions of event data in process mining. Knowledge and Information Systems, 2020, 62, 1143-1197.	2.1	14
46	Oclets “ Scenario-Based Modeling with Petri Nets. Lecture Notes in Computer Science, 2009, , 223-242.	1.0	13
47	Evaluating data-centric process approaches: Does the human factor factor in?. Software and Systems Modeling, 2017, 16, 649-662.	2.2	13
48	Analyzing and Completing Middleware Designs for Enterprise Integration Using Coloured Petri Nets. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 400-416.	0.2	12
49	Scalable alignment of process models and event logs: An approach based on automata and S-components. Information Systems, 2020, 94, 101561.	2.4	11
50	Detecting System-Level Behavior Leading To Dynamic Bottlenecks. , 2020, , .		10
51	Simplifying Mined Process Models: An Approach Based on Unfoldings. Lecture Notes in Computer Science, 2011, , 362-378.	1.0	8
52	Supporting Domain Experts to Select and Configure Precise Compliance Rules. Lecture Notes in Business Information Processing, 2014, , 498-512.	0.8	7
53	Automating Data Exchange in Process Choreographies. Lecture Notes in Computer Science, 2014, , 316-331.	1.0	7
54	A Visualization of Human Physical Risks in Manufacturing Processes Using BPMN. Lecture Notes in Business Information Processing, 2018, , 732-743.	0.8	7

#	ARTICLE	IF	CITATIONS
55	Artifact-Centric Process Mining. , 2019, , 108-117.		7
56	Where Did I Go Wrong?. Lecture Notes in Computer Science, 2014, , 283-300.	1.0	6
57	Classifying and Detecting Task Executions and Routines in Processes Using Event Graphs. Lecture Notes in Business Information Processing, 2021, , 212-229.	0.8	6
58	Repairing Event Logs with Missing Events to Support Performance Analysis of Systems with Shared Resources. Lecture Notes in Computer Science, 2020, , 239-259.	1.0	6
59	Storing and Querying Multi-dimensional Process Event Logs Using Graph Databases. Lecture Notes in Business Information Processing, 2019, , 632-644.	0.8	5
60	Visualizing Token Flows Using Interactive Performance Spectra. Lecture Notes in Computer Science, 2020, , 369-380.	1.0	5
61	Who Is Behind the Model? Classifying Modelers Based on Pragmatic Model Features. Lecture Notes in Computer Science, 2018, , 322-338.	1.0	5
62	Data and Abstraction for Scenario-Based Modeling with Petri Nets. Lecture Notes in Computer Science, 2012, , 168-187.	1.0	4
63	Dynamic Skipping and Blocking and Dead Path Elimination for Cyclic Workflows. Lecture Notes in Computer Science, 2016, , 234-251.	1.0	4
64	Analysis Techniques for Service Models. , 2006, , .		3
65	Process Discovery Using Graph Neural Networks. , 2021, , .		3
66	Dynamic skipping and blocking, dead path elimination for cyclic workflows, and a local semantics for inclusive gateways. Information Systems, 2018, 78, 126-143.	2.4	1
67	Grade/CPN: A Tool and Temporal Logic for Testing Colored Petri Net Models in Teaching. Lecture Notes in Computer Science, 2013, , 180-202.	1.0	1
68	Defining Meaningful Local Process Models. Lecture Notes in Computer Science, 2022, , 24-48.	1.0	1
69	Discovering Pattern-Based Mediator Services from Communication Logs. Lecture Notes in Computer Science, 2014, , 123-134.	1.0	0