

Wil M P Van Der Aalst

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.

674
papers

33,136
citations

88
h-index

162
g-index

723
ext. papers

38,232
ext. citations

1.9
avg, IF

8.19
L-index

#	Paper	IF	Citations
674	Process mining for healthcare: Characteristics and challenges.. <i>Journal of Biomedical Informatics</i> , 2022 , 127, 103994	10.2	19
673	May I Take Your Order?. <i>Lecture Notes in Business Information Processing</i> , 2022 , 99-110	0.6	2
672	Utilizing domain knowledge in data-driven process discovery: A literature review. <i>Computers in Industry</i> , 2022 , 137, 103612	11.6	6
671	Remaining Time Prediction for Processes with Inter-case Dynamics. <i>Lecture Notes in Business Information Processing</i> , 2022 , 140-153	0.6	0
670	Towards a Natural Language Conversational Interface for Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2022 , 268-280	0.6	0
669	Analyzing Medical Data with Process Mining: A COVID-19 Case Study. <i>Lecture Notes in Business Information Processing</i> , 2022 , 39-44	0.6	2
668	Event Log Sampling for Predictive Monitoring. <i>Lecture Notes in Business Information Processing</i> , 2022 , 154-166	0.6	0
667	A Generic Trace Ordering Framework for Incremental Process Discovery. <i>Lecture Notes in Computer Science</i> , 2022 , 264-277	0.9	1
666	Analyzing Multi-level BOM-Structured Event Data. <i>Lecture Notes in Business Information Processing</i> , 2022 , 47-59	0.6	
665	Trustworthy Artificial Intelligence and Process Mining: Challenges and Opportunities. <i>Lecture Notes in Business Information Processing</i> , 2022 , 395-407	0.6	
664	Probability Estimation of Uncertain Process Trace Realizations. <i>Lecture Notes in Business Information Processing</i> , 2022 , 21-33	0.6	3
663	An Event Data Extraction Approach from SAP ERP for Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2022 , 255-267	0.6	1
662	Visualizing Trace Variants from Partially Ordered Event Data. <i>Lecture Notes in Business Information Processing</i> , 2022 , 34-46	0.6	1
661	OrdinoR: A framework for discovering, evaluating, and analyzing organizational models using event logs. <i>Decision Support Systems</i> , 2022 , 113771	5.6	2
660	European leadership in process management. <i>Communications of the ACM</i> , 2022 , 65, 80-83	2.5	
659	A Computer Science Perspective on Digital Transformation in Production. <i>ACM Transactions on Internet of Things</i> , 2022 , 3, 1-32	2.2	9
658	Analyzing Process-Aware Information System Updates Using Digital Twins of Organizations. <i>Lecture Notes in Business Information Processing</i> , 2022 , 159-176	0.6	1

657	Hybrid Business Process Simulation: Updating Detailed Process Simulation Models Using High-Level Simulations. <i>Lecture Notes in Business Information Processing</i> , 2022 , 177-194	0.6	1
656	How Can Interactive Process Discovery Address Data Quality Issues in Real Business Settings? Evidence from a Case Study in Healthcare.. <i>Journal of Biomedical Informatics</i> , 2022 , 130, 104083	10.2	1
655	Data-Aware Process Oriented Query Language 2022 , 49-83		
654	Interactive Business Process Comparison Using Conformance and Performance Insights - A Tool. <i>Lecture Notes in Business Information Processing</i> , 2022 , 735-743	0.6	
653	PROMISE: Coupling predictive process mining to process discovery. <i>Information Sciences</i> , 2022 , 606, 250-271		
652	Uncertain Case Identifiers in Process Mining: A User Study of the Event-Case Correlation Problem on Click Data. <i>Lecture Notes in Business Information Processing</i> , 2022 , 173-187	0.6	0
651	Temporal Performance Analysis for Block-Structured Process Models in Cortado. <i>Lecture Notes in Business Information Processing</i> , 2022 , 110-119	0.6	
650	Discovering Process Models with Long-Term Dependencies While Providing Guarantees and Handling Infrequent Behavior. <i>Lecture Notes in Computer Science</i> , 2022 , 303-324	0.9	
649	From Place Nets to Local Process Models. <i>Lecture Notes in Computer Science</i> , 2022 , 346-368	0.9	
648	OCSPi \$\$: Object-Centric Process Insights. <i>Lecture Notes in Computer Science</i> , 2022 , 139-150	0.9	1
647	Process Mining: A 360 Degree Overview. <i>Lecture Notes in Business Information Processing</i> , 2022 , 3-34	0.6	4
646	Foundations of Process Discovery. <i>Lecture Notes in Business Information Processing</i> , 2022 , 37-75	0.6	2
645	Declarative Process Specifications: Reasoning, Discovery, Monitoring. <i>Lecture Notes in Business Information Processing</i> , 2022 , 108-152	0.6	1
644	Scaling Process Mining to Turn Insights into Actions. <i>Lecture Notes in Business Information Processing</i> , 2022 , 495-502	0.6	
643	Process Prediction with Digital Twins 2021 ,		2
642	Freezing Sub-models During Incremental Process Discovery. <i>Lecture Notes in Computer Science</i> , 2021 , 14-24	0.9	1
641	Precision and Fitness in Object-Centric Process Mining 2021 ,		10
640	Opportunities and Challenges for Process Mining in Organizations: Results of a Delphi Study. <i>Business and Information Systems Engineering</i> , 2021 , 63, 511-527	3.8	12

639	Realizing A Digital Twin of An Organization Using Action-oriented Process Mining 2021 ,		6
638	Seven Paradoxes of Business Process Management in a Hyper-Connected World. <i>Business and Information Systems Engineering</i> , 2021 , 63, 145-156	3.8	15
637	Automated model analysis tools and techniques presented at FASE 2019. <i>International Journal on Software Tools for Technology Transfer</i> , 2021 , 23, 285-287	1.3	
636	A Novel Token-Based Replay Technique to Speed Up Conformance Checking and Process Enhancement. <i>Lecture Notes in Computer Science</i> , 2021 , 1-26	0.9	5
635	Stage-Based Process Performance Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 349-364	0.9	1
634	Reduction Using Induced Subnets to Systematically Prove Properties for Free-Choice Nets. <i>Lecture Notes in Computer Science</i> , 2021 , 208-229	0.9	2
633	Cortado An Interactive Tool for Data-Driven Process Discovery and Modeling. <i>Lecture Notes in Computer Science</i> , 2021 , 465-475	0.9	7
632	A Framework for Explainable Concept Drift Detection in Process Mining. <i>Lecture Notes in Computer Science</i> , 2021 , 400-416	0.9	4
631	Towards Quantifying Privacy in Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2021 , 385-397	0.6	9
630	Concurrency and Objects Matter! Disentangling the Fabric of Real Operational Processes to Create Digital Twins. <i>Lecture Notes in Computer Science</i> , 2021 , 3-17	0.9	0
629	Data-Driven Process Performance Measurement and Prediction: A Process-Tree-Based Approach. <i>Lecture Notes in Business Information Processing</i> , 2021 , 73-81	0.6	0
628	Case Level Counterfactual Reasoning in Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2021 , 55-63	0.6	4
627	PROVED: A Tool for Graph Representation and Analysis of Uncertain Event Data. <i>Lecture Notes in Computer Science</i> , 2021 , 476-486	0.9	1
626	SIMPT: Process Improvement Using Interactive Simulation of Time-Aware Process Trees. <i>Lecture Notes in Business Information Processing</i> , 2021 , 588-594	0.6	5
625	The impact of biased sampling of event logs on the performance of process discovery. <i>Computing (Vienna/New York)</i> , 2021 , 103, 1085-1104	2.2	7
624	Group-based privacy preservation techniques for process mining. <i>Data and Knowledge Engineering</i> , 2021 , 134, 101908	1.5	9
623	Free-choice Nets with Home Clusters are Lucent. <i>Fundamenta Informaticae</i> , 2021 , 181, 273-302	1	3
622	Stochastic process mining: Earth movers to stochastic conformance. <i>Information Systems</i> , 2021 , 102, 101724-7	2.7	8

621	Conformance checking over uncertain event data. <i>Information Systems</i> , 2021 , 102, 101810	2.7	10
620	Removing Operational Friction Using Process Mining: Challenges Provided by the Internet of Production (IoP). <i>Communications in Computer and Information Science</i> , 2021 , 1-31	0.3	6
619	Privacy-Preserving Continuous Event Data Publishing. <i>Lecture Notes in Business Information Processing</i> , 2021 , 178-194	0.6	2
618	OCEL: A Standard for Object-Centric Event Logs. <i>Communications in Computer and Information Science</i> , 2021 , 169-175	0.3	12
617	Extracting Process Features from Event Logs to Learn Coarse-Grained Simulation Models. <i>Lecture Notes in Computer Science</i> , 2021 , 125-140	0.9	6
616	Process Mining on Blockchain Data: A Case Study of Augur. <i>Lecture Notes in Computer Science</i> , 2021 , 306-323	3.3	2
615	Alignment Approximation for Process Trees. <i>Lecture Notes in Business Information Processing</i> , 2021 , 247-259	2.1	1
614	Towards Reliable Business Process Simulation: A Framework to Integrate ERP Systems. <i>Lecture Notes in Business Information Processing</i> , 2021 , 112-127	0.6	1
613	Accurate Predictions, Invalid Recommendations: Lessons Learned at the Dutch Social Security Institute UWV 2021 , 165-178		
612	Privacy-Preserving Process Mining in Healthcare. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	23
611	Events Put into Context (EPiC) 2020 ,		6
610	Resource-centric process mining 2020 ,		5
609	Prototype Selection Using Clustering and Conformance Metrics for Process Discovery. <i>Lecture Notes in Business Information Processing</i> , 2020 , 281-294	0.6	3
608	Improving the State-Space Traversal of the eST-Miner by Exploiting Underlying Log Structures. <i>Lecture Notes in Business Information Processing</i> , 2020 , 334-347	0.6	
607	Efficient Construction of Behavior Graphs for Uncertain Event Data. <i>Lecture Notes in Business Information Processing</i> , 2020 , 76-88	0.6	3
606	Detecting System-Level Behavior Leading To Dynamic Bottlenecks 2020 ,		3
605	The Data Science Revolution. <i>IFIP Advances in Information and Communication Technology</i> , 2020 , 5-19	0.5	0
604	Supporting Decisions in Production Line Processes by Combining Process Mining and System Dynamics. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 461-467	0.4	8

603	Academic View: Development of the Process Mining Discipline 2020 , 181-196		9
602	Extracting Multiple Viewpoint Models from Relational Databases. <i>Lecture Notes in Business Information Processing</i> , 2020 , 24-51	0.6	7
601	Supporting Confidentiality in Process Mining Using Abstraction and Encryption. <i>Lecture Notes in Business Information Processing</i> , 2020 , 101-123	0.6	7
600	TLKC-Privacy Model for Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2020 , 398-416	0.6	9
599	Incremental Discovery of Hierarchical Process Models. <i>Lecture Notes in Business Information Processing</i> , 2020 , 417-433	0.6	10
598	Visualizing Token Flows Using Interactive Performance Spectra. <i>Lecture Notes in Computer Science</i> , 2020 , 369-380	0.9	4
597	Supporting Automatic System Dynamics Model Generation for Simulation in the Context of Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2020 , 249-263	0.6	11
596	Privacy-Preserving Data Publishing in Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2020 , 122-138	0.6	11
595	Semi-automated Time-Granularity Detection for Data-Driven Simulation Using Process Mining and System Dynamics. <i>Lecture Notes in Computer Science</i> , 2020 , 77-91	0.9	7
594	Root Cause Analysis in Process Mining Using Structural Equation Models. <i>Lecture Notes in Business Information Processing</i> , 2020 , 155-167	0.6	6
593	A General Framework for Action-Oriented Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2020 , 206-218	0.6	3
592	Data-based description of process performance in end-to-end order processing. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 381-384	4.9	8
591	Case notion discovery and recommendation: automated event log building on databases. <i>Knowledge and Information Systems</i> , 2020 , 62, 2539-2575	2.4	10
590	Discovering Object-centric Petri Nets. <i>Fundamenta Informaticae</i> , 2020 , 175, 1-40	1	22
589	Efficient Time and Space Representation of Uncertain Event Data. <i>Algorithms</i> , 2020 , 13, 285	1.8	4
588	Conformance Checking Approximation Using Simulation 2020 ,		3
587	Time-aware Concept Drift Detection Using the Earth Mover's Distance 2020 ,		3
586	Scalable Discovery of Hybrid Process Models in a Cloud Computing Environment. <i>IEEE Transactions on Services Computing</i> , 2020 , 13, 368-380	4.8	9

585	Predictive Performance Monitoring of Material Handling Systems Using the Performance Spectrum 2019 ,		4
584	Structuring Behavior or Not, That is the Question 2019 , 221-226		
583	Data-Driven Usability Test Scenario Creation. <i>Lecture Notes in Computer Science</i> , 2019 , 88-108	0.9	2
582	Finding Complex Process-Structures by Exploiting the Token-Game. <i>Lecture Notes in Computer Science</i> , 2019 , 258-278	0.9	7
581	Discovering Petri Nets: A Personal Journey 2019 , 3-9		1
580	Object-centric behavioral constraint models 2019 ,		2
579	On the application of sequential pattern mining primitives to process discovery: Overview, outlook and opportunity identification. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019 , 9, e1315	6.9	4
578	Generating time-based label refinements to discover more precise process models. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2019 , 11, 165-182	2.2	4
577	Responsible Data Science in a Dynamic World. <i>IFIP Advances in Information and Communication Technology</i> , 2019 , 3-10	0.5	4
576	Multi-instance Mining: Discovering Synchronisation in Artifact-Centric Processes. <i>Lecture Notes in Business Information Processing</i> , 2019 , 18-30	0.6	2
575	Improving Merging Conditions for Recomposing Conformance Checking. <i>Lecture Notes in Business Information Processing</i> , 2019 , 31-43	0.6	1
574	Guided Interaction Exploration and Performance Analysis in Artifact-Centric Process Models. <i>Business and Information Systems Engineering</i> , 2019 , 61, 649-663	3.8	6
573	Mining Uncertain Event Data in Process Mining 2019 ,		16
572	Aligning observed and modelled behaviour by maximizing synchronous moves and using milestones. <i>Information Systems</i> , 2019 , 103, 101456	2.7	0
571	A General Framework to Identify Software Components from Execution Data 2019 ,		6
570	Fairness-Aware Process Mining. <i>Lecture Notes in Computer Science</i> , 2019 , 182-192	0.9	5
569	A Tour in Process Mining: From Practice to Algorithmic Challenges. <i>Lecture Notes in Computer Science</i> , 2019 , 1-35	0.9	0
568	Finding Uniwired Petri Nets Using eST-Miner. <i>Lecture Notes in Business Information Processing</i> , 2019 , 224-237		2

567	Everything You Always Wanted to Know About Petri Nets, but Were Afraid to Ask. <i>Lecture Notes in Computer Science</i> , 2019 , 3-9	0.9	6
566	Earth Movers Stochastic Conformance Checking. <i>Lecture Notes in Business Information Processing</i> , 2019 , 127-143	0.6	19
565	Mining Blockchain Processes: Extracting Process Mining Data from Blockchain Applications. <i>Lecture Notes in Business Information Processing</i> , 2019 , 71-86	0.6	17
564	Object-Centric Process Mining: Dealing with Divergence and Convergence in Event Data. <i>Lecture Notes in Computer Science</i> , 2019 , 3-25	0.9	33
563	Scenario-Based Prediction of Business Processes Using System Dynamics. <i>Lecture Notes in Computer Science</i> , 2019 , 422-439	0.9	13
562	Automated Robotic Process Automation: A Self-Learning Approach. <i>Lecture Notes in Computer Science</i> , 2019 , 95-112	0.9	13
561	A Generic Approach for Process Performance Analysis Using Bipartite Graph Matching. <i>Lecture Notes in Business Information Processing</i> , 2019 , 199-211	0.6	1
560	Discovering Process Models from Uncertain Event Data. <i>Lecture Notes in Business Information Processing</i> , 2019 , 238-249	0.6	11
559	Towards Privacy-Preserving Process Mining in Healthcare. <i>Lecture Notes in Business Information Processing</i> , 2019 , 483-495	0.6	12
558	Evaluating the Effectiveness of Interactive Process Discovery in Healthcare: A Case Study. <i>Lecture Notes in Business Information Processing</i> , 2019 , 508-519	0.6	7
557	Mining Roles from Event Logs While Preserving Privacy. <i>Lecture Notes in Business Information Processing</i> , 2019 , 676-689	0.6	12
556	Evaluating Conformance Measures in Process Mining Using Conformance Propositions. <i>Lecture Notes in Computer Science</i> , 2019 , 192-221	0.9	19
555	Lucent Process Models and Translucent Event Logs. <i>Fundamenta Informaticae</i> , 2019 , 169, 151-177	1	3
554	Discovering high-level BPMN process models from event data. <i>Business Process Management Journal</i> , 2019 , 25, 995-1019	3.6	7
553	Online conformance checking: relating event streams to process models using prefix-alignments. <i>International Journal of Data Science and Analytics</i> , 2019 , 8, 269-284	2	30
552	Connecting databases with process mining: a meta model and toolset. <i>Software and Systems Modeling</i> , 2019 , 18, 1209-1247	1.9	23
551	Discovering more precise process models from event logs by filtering out chaotic activities. <i>Journal of Intelligent Information Systems</i> , 2019 , 52, 107-139	2.1	36
550	Blockchains for Business Process Management - Challenges and Opportunities. <i>ACM Transactions on Management Information Systems</i> , 2018 , 9, 1-16	2	246

549	2018,			14
548	Special Issue on Service-Oriented Collaborative Computing and Applications. <i>IEEE Transactions on Services Computing</i> , 2018 , 11, 277-278	4.8		1
547	Discovering workflow nets using integer linear programming. <i>Computing (Vienna/New York)</i> , 2018 , 100, 529-556	2.2		32
546	The imprecisions of precision measures in process mining. <i>Information Processing Letters</i> , 2018 , 135, 1-8	0.8		32
545	DB-XES: Enabling Process Discovery in the Large. <i>Lecture Notes in Business Information Processing</i> , 2018 , 53-77	0.6		5
544	Spreadsheets for business process management. <i>Business Process Management Journal</i> , 2018 , 24, 105-127	6		13
543	Process discovery from event data: Relating models and logs through abstractions. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2018 , 8, e1244	6.9		17
542	Recurrent Process Mining with Live Event Data. <i>Lecture Notes in Business Information Processing</i> , 2018 , 178-190	0.6		0
541	Mining Process Model Descriptions of Daily Life Through Event Abstraction. <i>Studies in Computational Intelligence</i> , 2018 , 83-104	0.8		10
540	Process variant comparison: Using event logs to detect differences in behavior and business rules. <i>Information Systems</i> , 2018 , 74, 53-66	2.7		23
539	The Statechart Workbench: Enabling scalable software event log analysis using process mining 2018,			10
538	Guided Process Discovery [A pattern-based approach]. <i>Information Systems</i> , 2018 , 76, 1-18	2.7		31
537	Scalable process discovery and conformance checking. <i>Software and Systems Modeling</i> , 2018 , 17, 599-631	1.9		95
536	Event stream-based process discovery using abstract representations. <i>Knowledge and Information Systems</i> , 2018 , 54, 407-435	2.4		38
535	Event Abstraction for Process Mining Using Supervised Learning Techniques. <i>Lecture Notes in Networks and Systems</i> , 2018 , 251-269	0.5		32
534	Recomposing conformance: Closing the circle on decomposed alignment-based conformance checking in process mining. <i>Information Sciences</i> , 2018 , 466, 55-91	7.7		18
533	2018,			10
532	Interest-driven discovery of local process models. <i>Information Systems</i> , 2018 , 77, 105-117	2.7		9

531	Extracting Object-Centric Event Logs to Support Process Mining on Databases. <i>Lecture Notes in Business Information Processing</i> , 2018 , 182-199	0.6	29
530	Detection and Interactive Repair of Event Ordering Imperfection in Process Logs. <i>Lecture Notes in Computer Science</i> , 2018 , 274-290	0.9	16
529	A Framework to Support Behavioral Design Pattern Detection from Software Execution Data 2018 ,		6
528	Fast Incremental Conformance Analysis for Interactive Process Discovery. <i>Lecture Notes in Business Information Processing</i> , 2018 , 163-175	0.6	3
527	Incremental Computation of Synthesis Rules for Free-Choice Petri Nets. <i>Lecture Notes in Computer Science</i> , 2018 , 97-117	0.9	
526	Improving Process Discovery Results by Filtering Outliers Using Conditional Behavioural Probabilities. <i>Lecture Notes in Business Information Processing</i> , 2018 , 216-229	0.6	23
525	E-Government Services: Comparing Real and Expected User Behavior. <i>Lecture Notes in Business Information Processing</i> , 2018 , 484-496	0.6	5
524	Visual Analytics for Soundness Verification of Process Models. <i>Lecture Notes in Business Information Processing</i> , 2018 , 744-756	0.6	2
523	Markings in Perpetual Free-Choice Nets Are Fully Characterized by Their Enabled Transitions. <i>Lecture Notes in Computer Science</i> , 2018 , 315-336	0.9	1
522	Mining Hybrid Business Process Models: A Quest for Better Precision. <i>Lecture Notes in Business Information Processing</i> , 2018 , 190-205	0.6	8
521	Repairing Outlier Behaviour in Event Logs. <i>Lecture Notes in Business Information Processing</i> , 2018 , 115-131	1.6	11
520	Maximizing Synchronization for Aligning Observed and Modelled Behaviour. <i>Lecture Notes in Computer Science</i> , 2018 , 233-249	0.9	7
519	Unbiased, Fine-Grained Description of Processes Performance from Event Data. <i>Lecture Notes in Computer Science</i> , 2018 , 139-157	0.9	17
518	Linking data and process perspectives for conformance analysis. <i>Computers and Security</i> , 2018 , 73, 172-193	1.3	28
517	Business Process Analytics and Big Data Systems: A Roadmap to Bridge the Gap. <i>IEEE Access</i> , 2018 , 6, 77308-77320	3.5	17
516	Conceptual Schema Transformation in Ontology-Based Data Access. <i>Lecture Notes in Computer Science</i> , 2018 , 50-67	0.9	4
515	Fast Conformance Analysis Based on Activity Log Abstraction 2018 ,		2
514	Views on the Past, Present, and Future of Business and Information Systems Engineering. <i>Business and Information Systems Engineering</i> , 2018 , 60, 443-477	3.8	12

513	2018,		2
512	Mining Local Process Models with Constraints Efficiently: Applications to the Analysis of Smart Home Data 2018,		4
511	Analysing Structured Learning Behaviour in Massive Open Online Courses (MOOCs): An Approach Based on Process Mining and Clustering. <i>International Review of Research in Open and Distance Learning, 2018, 19,</i>	2.2	18
510	Symbolically Aligning Observed and Modelled Behaviour 2018,		10
509	Interactive Data-Driven Process Model Construction. <i>Lecture Notes in Computer Science, 2018, 251-265</i>	0.9	14
508	Lifecycle-Based Process Performance Analysis. <i>Lecture Notes in Computer Science, 2018, 336-353</i>	0.9	1
507	Applying Sequence Mining for Outlier Detection in Process Mining. <i>Lecture Notes in Computer Science, 2018, 98-116</i>	0.9	11
506	Similarity resonance for improving process model matching accuracy 2018,		2
505	Configurable Event Correlation for Process Discovery from Object-Centric Event Data 2018,		2
504	Component interface identification and behavioral model discovery from software execution data 2018,		6
503	Hierarchical performance analysis for process mining 2018,		9
502	Discovering the Blue Connecting Activities. <i>Lecture Notes in Computer Science, 2018, 1-20</i>	0.9	5
501	LocalProcessModelDiscovery: Bringing Petri Nets to the Pattern Mining World. <i>Lecture Notes in Computer Science, 2018, 374-384</i>	0.9	2
500	A general framework to detect behavioral design patterns 2018,		5
499	Process mining using BPMN: relating event logs and process models. <i>Software and Systems Modeling, 2017, 16, 1019-1048</i>	1.9	33
498	Generating event logs for high-level process models. <i>Simulation Modelling Practice and Theory, 2017, 74, 1-16</i>	3.9	10
497	Discovering work prioritisation patterns from event logs. <i>Decision Support Systems, 2017, 100, 77-92</i>	5.6	11
496	Process querying: Enabling business intelligence through query-based process analytics. <i>Decision Support Systems, 2017, 100, 41-56</i>	5.6	62

495	ProcessProfiler3D: A visualisation framework for log-based process performance comparison. <i>Decision Support Systems</i> , 2017 , 100, 93-108	5.6	26
494	Mining Resource Profiles from Event Logs. <i>ACM Transactions on Management Information Systems</i> , 2017 , 8, 1-30	2	35
493	Business Process Variability Modeling. <i>ACM Computing Surveys</i> , 2017 , 50, 1-45	13.4	71
492	A framework for detecting deviations in complex event logs. <i>Intelligent Data Analysis</i> , 2017 , 21, 759-779	1.1	6
491	2017 ,		7
490	Efficient Event Correlation over Distributed Systems 2017 ,		12
489	Impact-Driven Process Model Repair. <i>ACM Transactions on Software Engineering and Methodology</i> , 2017 , 25, 1-60	3.3	35
488	Change visualisation: Analysing the resource and timing differences between two event logs. <i>Information Systems</i> , 2017 , 65, 106-123	2.7	11
487	Divide and Conquer: A Tool Framework for Supporting Decomposed Discovery in Process Mining. <i>Computer Journal</i> , 2017 , 60, 1649-1674	1.3	14
486	Using Event Logs for Local Correction of Process Models. <i>Automatic Control and Computer Sciences</i> , 2017 , 51, 709-723	0.7	1
485	Business Process Reporting Using Process Mining, Analytic Workflows and Process Cubes: A Case Study in Education. <i>Lecture Notes in Business Information Processing</i> , 2017 , 28-53	0.6	4
484	Detecting Changes in Process Behavior Using Comparative Case Clustering. <i>Lecture Notes in Business Information Processing</i> , 2017 , 54-75	0.6	5
483	Using Domain Knowledge to Enhance Process Mining Results. <i>Lecture Notes in Business Information Processing</i> , 2017 , 76-104	0.6	6
482	Everything You Always Wanted to Know About Your Process, but Did Not Know How to Ask. <i>Lecture Notes in Business Information Processing</i> , 2017 , 296-309	0.6	8
481	Subgroup Discovery in Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2017 , 237-252	0.6	7
480	Business Process Comparison: A Methodology and Case Study. <i>Lecture Notes in Business Information Processing</i> , 2017 , 253-267	0.6	4
479	Automatic Discovery of Object-Centric Behavioral Constraint Models. <i>Lecture Notes in Business Information Processing</i> , 2017 , 43-58	0.6	16
478	Discovering Social Networks Instantly: Moving Process Mining Computations to the Database and Data Entry Time. <i>Lecture Notes in Business Information Processing</i> , 2017 , 51-67	0.6	5

477	Discovering Causal Factors Explaining Business Process Performance Variation. <i>Lecture Notes in Computer Science</i> , 2017 , 177-192	0.9	21
476	Data-Driven Process Discovery - Revealing Conditional Infrequent Behavior from Event Logs. <i>Lecture Notes in Computer Science</i> , 2017 , 545-560	0.9	32
475	Responsible Data Science: Using Event Data in a People Friendly Manner. <i>Lecture Notes in Business Information Processing</i> , 2017 , 3-28	0.6	13
474	Learning Hybrid Process Models from Events. <i>Lecture Notes in Computer Science</i> , 2017 , 59-76	0.9	13
473	Semi-supervised Log Pattern Detection and Exploration Using Event Concurrence and Contextual Information. <i>Lecture Notes in Computer Science</i> , 2017 , 154-174	0.9	14
472	Finding Process Variants in Event Logs. <i>Lecture Notes in Computer Science</i> , 2017 , 45-52	0.9	12
471	Modeling and Discovering Cancellation Behavior. <i>Lecture Notes in Computer Science</i> , 2017 , 93-113	0.9	5
470	Discovering Hierarchical Consolidated Models from Process Families. <i>Lecture Notes in Computer Science</i> , 2017 , 314-329	0.9	2
469	A general process mining framework for correlating, predicting and clustering dynamic behavior based on event logs. <i>Information Systems</i> , 2016 , 56, 235-257	2.7	118
468	Enabling process mining on sensor data from smart products 2016 ,		14
467	A Generic Framework for Context-Aware Process Performance Analysis. <i>Lecture Notes in Computer Science</i> , 2016 , 300-317	0.9	14
466	Online Discovery of Cooperative Structures in Business Processes. <i>Lecture Notes in Computer Science</i> , 2016 , 210-228	0.9	7
465	Connecting Databases with Process Mining: A Meta Model and Toolset. <i>Lecture Notes in Business Information Processing</i> , 2016 , 231-249	0.6	15
464	Building instance graphs for highly variable processes. <i>Expert Systems With Applications</i> , 2016 , 59, 101-118	1.8	23
463	Balanced multi-perspective checking of process conformance. <i>Computing (Vienna/New York)</i> , 2016 , 98, 407-437	2.2	90
462	Turning event logs into process movies: animating what has really happened. <i>Software and Systems Modeling</i> , 2016 , 15, 707-732	1.9	7
461	Analyzing inter-organizational business processes. <i>Information Systems and E-Business Management</i> , 2016 , 14, 577-612	2.6	11
460	Evaluating and predicting overall process risk using event logs. <i>Information Sciences</i> , 2016 , 352-353, 98-129	1.2	25

459	Revising history for cost-informed process improvement. <i>Computing (Vienna/New York)</i> , 2016 , 98, 895-921	2
458	The effectiveness of workflow management systems: A longitudinal study. <i>International Journal of Information Management</i> , 2016 , 36, 126-141	16.4 25
457	Scientific workflows for process mining: building blocks, scenarios, and implementation. <i>International Journal on Software Tools for Technology Transfer</i> , 2016 , 18, 607-628	1.3 23
456	Green Data Science - Using Big Data in an Environmentally Friendly Manner 2016 ,	5
455	Workflow Patterns 2016 ,	38
454	Merging Alignments for Decomposed Replay. <i>Lecture Notes in Computer Science</i> , 2016 , 219-239	0.9 9
453	A Visual Approach to Spot Statistically-Significant Differences in Event Logs Based on Process Metrics. <i>Lecture Notes in Computer Science</i> , 2016 , 151-166	0.9 17
452	Decision Mining Revisited - Discovering Overlapping Rules. <i>Lecture Notes in Computer Science</i> , 2016 , 377-392	0.9 23
451	Measuring the Precision of Multi-perspective Process Models. <i>Lecture Notes in Business Information Processing</i> , 2016 , 113-125	0.6 3
450	Detecting Deviating Behaviors Without Models. <i>Lecture Notes in Business Information Processing</i> , 2016 , 126-139	0.6 15
449	Ontology-Driven Extraction of Event Logs from Relational Databases. <i>Lecture Notes in Business Information Processing</i> , 2016 , 140-153	0.6 33
448	Discovering Queues from Event Logs with Varying Levels of Information. <i>Lecture Notes in Business Information Processing</i> , 2016 , 154-166	0.6 9
447	Using Life Cycle Information in Process Discovery. <i>Lecture Notes in Business Information Processing</i> , 2016 , 204-217	0.6 20
446	Process mining using BPMN 2016 ,	6
445	Heuristic approaches for generating Local Process Models through log projections 2016 ,	14
444	Component behavior discovery from software execution data 2016 ,	3
443	Mining local process models. <i>Journal of Innovation in Digital Ecosystems</i> , 2016 , 3, 183-196	52
442	Process Mining 2016 ,	885

441	Data Science in Action 2016 , 3-23		181
440	Log-based Evaluation of Label Splits for Process Models. <i>Procedia Computer Science</i> , 2016 , 96, 63-72	1.6	4
439	Handling Duplicated Tasks in Process Discovery by Refining Event Labels. <i>Lecture Notes in Computer Science</i> , 2016 , 90-107	0.9	15
438	From Low-Level Events to Activities - A Pattern-Based Approach. <i>Lecture Notes in Computer Science</i> , 2016 , 125-141	0.9	35
437	Discovering and Exploring State-Based Models for Multi-perspective Processes. <i>Lecture Notes in Computer Science</i> , 2016 , 142-157	0.9	15
436	Event interval analysis: Why do processes take time?. <i>Decision Support Systems</i> , 2015 , 79, 77-98	5.6	15
435	Compliance monitoring in business processes: Functionalities, application, and tool-support. <i>Information Systems</i> , 2015 , 54, 209-234	2.7	113
434	Extracting Event Data from Databases to Unleash Process Mining. <i>Management for Professionals</i> , 2015 , 105-128	0.4	50
433	Scalable Process Discovery with Guarantees. <i>Lecture Notes in Business Information Processing</i> , 2015 , 85-101	10.6	39
432	Configuring Configurable Process Models Made Easier: An Automated Approach. <i>Lecture Notes in Business Information Processing</i> , 2015 , 105-117	0.6	
431	Process Mining. <i>SpringerBriefs in Business Process Management</i> , 2015 , 17-26	0.3	6
430	Change your history: Learning from event logs to improve processes 2015 ,		5
429	A Structural Model Comparison for Finding the Best Performing Models in a Collection. <i>Lecture Notes in Computer Science</i> , 2015 , 180-188	0.9	1
428	Declarative process mining in healthcare. <i>Expert Systems With Applications</i> , 2015 , 42, 9236-9251	7.8	88
427	Change Point Detection and Dealing with Gradual and Multi-order Dynamics in Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2015 , 161-178	0.6	17
426	Processes Meet Big Data: Connecting Data Science with Process Science. <i>IEEE Transactions on Services Computing</i> , 2015 , 8, 810-819	4.8	46
425	A recommendation system for predicting risks across multiple business process instances. <i>Decision Support Systems</i> , 2015 , 69, 1-19	5.6	85
424	An alignment-based framework to check the conformance of declarative process models and to preprocess event-log data. <i>Information Systems</i> , 2015 , 47, 258-277	2.7	50

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422	Measuring precision of modeled behavior. <i>Information Systems and E-Business Management</i> , 2015 , 13, 37-67	2.6	72
421	Business process management as the $\hat{=}$ killer AppFor Petri nets. <i>Software and Systems Modeling</i> , 2015 , 14, 685-691	1.9	18
420	Assessing Process Discovery Scalability in Data Intensive Environments 2015 ,		4
419	Big software on the run: in vivo software analytics based on process mining (keynote) 2015 ,		9
418	Decomposed Process Mining: The ILP Case. <i>Lecture Notes in Business Information Processing</i> , 2015 , 264-276		9
417	Business Process Simulation Survival Guide 2015 , 337-370		29
416	Process Mining in Healthcare. <i>SpringerBriefs in Business Process Management</i> , 2015 ,	0.3	92
415	PM(^2): A Process Mining Project Methodology. <i>Lecture Notes in Computer Science</i> , 2015 , 297-313	0.9	88
414	Multidimensional Process Mining Using Process Cubes. <i>Lecture Notes in Business Information Processing</i> , 2015 , 102-116	0.6	16
413	Comparative Process Mining in Education: An Approach Based on Process Cubes. <i>Lecture Notes in Business Information Processing</i> , 2015 , 110-134	0.6	13
412	Process mining in software systems: Discovering real-life business transactions and process models from distributed systems 2015 ,		25
411	Exploring Processes and Deviations. <i>Lecture Notes in Business Information Processing</i> , 2015 , 304-316	0.6	16
410	YAWL in the Cloud: Supporting Process Sharing and Variability. <i>Lecture Notes in Business Information Processing</i> , 2015 , 367-379	0.6	5
409	Conformance Checking Based on Partially Ordered Event Data. <i>Lecture Notes in Business Information Processing</i> , 2015 , 75-88	0.6	24
408	Data Quality Issues. <i>SpringerBriefs in Business Process Management</i> , 2015 , 79-88	0.3	5
407	Process Discovery Using Localized Events. <i>Lecture Notes in Computer Science</i> , 2015 , 287-308	0.9	14
406	Avoiding Over-Fitting in ILP-Based Process Discovery. <i>Lecture Notes in Computer Science</i> , 2015 , 163-171	0.9	20

405	Process Mining on Databases: Unearthing Historical Data from Redo Logs. <i>Lecture Notes in Computer Science</i> , 2015 , 367-385	0.9	19
404	Discovery of Frequent Episodes in Event Logs. <i>Lecture Notes in Business Information Processing</i> , 2015 , 1-31	0.6	17
403	Process Mining in the Large: A Tutorial. <i>Lecture Notes in Business Information Processing</i> , 2014 , 33-76	0.6	24
402	Dealing with concept drifts in process mining. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 154-71	10.3	95
401	Quality Dimensions in Process Discovery: The Importance of Fitness, Precision, Generalization and Simplicity. <i>International Journal of Cooperative Information Systems</i> , 2014 , 23, 1440001	0.6	76
400	Geschäftsprozessmodellierung: Die „Killer-Applikation“ Petrinetze. <i>Informatik-Spektrum</i> , 2014 , 37, 191-198	0.3	3
399	Single-Entry Single-Exit decomposed conformance checking. <i>Information Systems</i> , 2014 , 46, 102-122	2.7	81
398	Agile development with software process mining 2014 ,		26
397	Business Process Management Workshops. <i>Lecture Notes in Business Information Processing</i> , 2014 ,	0.6	4
396	Conformance checking in healthcare based on partially ordered event data 2014 ,		12
395	Control-flow discovery from event streams 2014 ,		42
394	Process Discovery and Conformance Checking Using Passages. <i>Fundamenta Informaticae</i> , 2014 , 131, 103-138		12
393	Perturbing event logs to identify cost reduction opportunities: A genetic algorithm-based approach 2014 ,		4
392	WI Call for Papers Heft 1/2016. <i>Business & Information Systems Engineering</i> , 2014 , 56, 339-340		
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390	Process mining can be applied to software too! 2014 ,		37
389	Discovering Stochastic Petri Nets with Arbitrary Delay Distributions from Event Logs. <i>Lecture Notes in Business Information Processing</i> , 2014 , 15-27	0.6	28
388	Discovering Block-Structured Process Models from Event Logs Containing Infrequent Behaviour. <i>Lecture Notes in Business Information Processing</i> , 2014 , 66-78	0.6	140

387	Data Scientist: The Engineer of the Future 2014 , 13-26		40
386	Supporting Domain Experts to Select and Configure Precise Compliance Rules. <i>Lecture Notes in Business Information Processing</i> , 2014 , 498-512	0.6	7
385	Process Model Discovery: A Method Based on Transition System Decomposition. <i>Lecture Notes in Computer Science</i> , 2014 , 71-90	0.9	6
384	Discovering Block-Structured Process Models from Incomplete Event Logs. <i>Lecture Notes in Computer Science</i> , 2014 , 91-110	0.9	64
383	An Extensible Framework for Analysing Resource Behaviour Using Event Logs. <i>Lecture Notes in Computer Science</i> , 2014 , 564-579	0.9	19
382	A General Framework for Correlating Business Process Characteristics. <i>Lecture Notes in Computer Science</i> , 2014 , 250-266	0.9	29
381	How People Really (Like To) Work. <i>Lecture Notes in Computer Science</i> , 2014 , 317-321	0.9	3
380	Decomposing Alignment-Based Conformance Checking of Data-Aware Process Models. <i>Lecture Notes in Computer Science</i> , 2014 , 3-20	0.9	10
379	Behavioral Service Substitution 2014 , 215-244		0
378	Supporting Risk-Informed Decisions during Business Process Execution. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2013 , 116-132	0.3	39
377	Profiling Event Logs to Configure Risk Indicators for Process Delays. <i>Lecture Notes in Computer Science</i> , 2013 , 465-481	0.9	14
376	A Knowledge-Based Integrated Approach for Discovering and Repairing Declare Maps. <i>Lecture Notes in Computer Science</i> , 2013 , 433-448	0.9	33
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370	Semantic-Based Conformance Checking of Computer Interpretable Medical Guidelines. <i>Communications in Computer and Information Science</i> , 2013 , 285-300	0.3	2

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368	Discovering signature patterns from event logs 2013 ,		19
367	Decomposing Petri nets for process mining: A generic approach. <i>Distributed and Parallel Databases</i> , 2013 , 31, 471-507	0.9	103
366	Data-aware process mining 2013 ,		83
365	Monitoring business constraints with the event calculus. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2013 , 5, 1-30	8	41
364	Process Mining in Healthcare: Data Challenges When Answering Frequently Posed Questions. <i>Lecture Notes in Computer Science</i> , 2013 , 140-153	0.9	59
363	Diagnostic Information for Compliance Checking of Temporal Compliance Requirements. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2013 , 304-320	0.3	11
362	Conformance Checking in the Large: Partitioning and Topology. <i>Lecture Notes in Computer Science</i> , 2013 , 130-145	0.9	18
361	Predicting Deadline Transgressions Using Event Logs. <i>Lecture Notes in Business Information Processing</i> , 2013 , 211-216	0.6	31
360	An Experimental Evaluation of Passage-Based Process Discovery. <i>Lecture Notes in Business Information Processing</i> , 2013 , 205-210	0.6	4
359	Alignment Based Precision Checking. <i>Lecture Notes in Business Information Processing</i> , 2013 , 137-149	0.6	49
358	Process Cubes: Slicing, Dicing, Rolling Up and Drilling Down Event Data for Process Mining. <i>Lecture Notes in Business Information Processing</i> , 2013 , 1-22	0.6	48
357	Improving Business Process Models Using Observed Behavior. <i>Lecture Notes in Business Information Processing</i> , 2013 , 44-59	0.6	16
356	Strategies for Modeling Complex Processes Using Colored Petri Nets. <i>Lecture Notes in Computer Science</i> , 2013 , 6-55	0.9	21
355	Business Process Management: A Comprehensive Survey 2013 , 2013, 1-37		339
354	Root Cause Analysis with Enriched Process Logs. <i>Lecture Notes in Business Information Processing</i> , 2013 , 174-186	0.6	29
353	The P2P Approach to Interorganizational Workflows 2013 , 289-305		3
352	Reflections on a Decade of Interorganizational Workflow Research 2013 , 307-313		5

351	Discovering Petri Nets from Event Logs. <i>Lecture Notes in Computer Science</i> , 2013 , 372-422	0.9	17
350	Hierarchical Conformance Checking of Process Models Based on Event Logs. <i>Lecture Notes in Computer Science</i> , 2013 , 291-310	0.9	9
349	Discovering Block-Structured Process Models from Event Logs - A Constructive Approach. <i>Lecture Notes in Computer Science</i> , 2013 , 311-329	0.9	231
348	Challenges in Service Mining: Record, Check, Discover. <i>Lecture Notes in Computer Science</i> , 2013 , 1-4	0.9	3
347	Aligning Event Logs and Process Models for Multi-perspective Conformance Checking: An Approach Based on Integer Linear Programming. <i>Lecture Notes in Computer Science</i> , 2013 , 113-129	0.9	45
346	Mining Configurable Process Models from Collections of Event Logs. <i>Lecture Notes in Computer Science</i> , 2013 , 33-48	0.9	31
345	Enhancing Declare Maps Based on Event Correlations. <i>Lecture Notes in Computer Science</i> , 2013 , 97-112	0.9	29
344	Beautiful Workflows: A Matter of Taste?. <i>Lecture Notes in Computer Science</i> , 2013 , 211-233	0.9	2
343	Repairing Event Logs Using Timed Process Models. <i>Lecture Notes in Computer Science</i> , 2013 , 705-708	0.9	17
342	Improving Documentation by Repairing Event Logs. <i>Lecture Notes in Business Information Processing</i> , 2013 , 129-144	0.6	23
341	Cost-Informed Operational Process Support. <i>Lecture Notes in Computer Science</i> , 2013 , 174-181	0.9	4
340	Conformance Checking of Services Using the Best Matching Private View. <i>Lecture Notes in Computer Science</i> , 2013 , 49-68	0.9	5
339	Service Discovery from Observed Behavior while Guaranteeing Deadlock Freedom in Collaborations. <i>Lecture Notes in Computer Science</i> , 2013 , 358-373	0.9	
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335	Ensuring correctness during process configuration via partner synthesis. <i>Information Systems</i> , 2012 , 37, 574-592	2.7	37
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328	A genetic algorithm for discovering process trees 2012 ,		67
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321	Workflow patterns put into context. <i>Software and Systems Modeling</i> , 2012 , 11, 319-323	1.9	32
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307	Runtime Verification of LTL-Based Declarative Process Models. <i>Lecture Notes in Computer Science</i> , 2012 , 131-146	0.9	37
306	Creating Sound and Reversible Configurable Process Models Using CoSeNets. <i>Lecture Notes in Business Information Processing</i> , 2012 , 24-35	0.6	14
305	Data- and Resource-Aware Conformance Checking of Business Processes. <i>Lecture Notes in Business Information Processing</i> , 2012 , 48-59	0.6	24
304	Generating Event Logs with Workload-Dependent Speeds from Simulation Models. <i>Lecture Notes in Business Information Processing</i> , 2012 , 383-397	0.6	8
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291	Getting the Data 2011 , 95-123		9
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289	Analyzing Spaghetti Processes 2011 , 301-317		6
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274	Conformance Checking Using Cost-Based Fitness Analysis 2011 ,		178
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268	Handling Concept Drift in Process Mining. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2011 , 391-405	0.3	60
267	Towards Robust Conformance Checking. <i>Lecture Notes in Business Information Processing</i> , 2011 , 122-133	0.6	54
266	Intra- and Inter-Organizational Process Mining: Discovering Processes within and between Organizations. <i>Lecture Notes in Business Information Processing</i> , 2011 , 1-11	0.6	16
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