Marcello La Rosa

List of Publications by Year
in descending order

97 papers	4,864 citations	126708 33 h-index	110170 64 g-index
105 all docs	105 docs citations	105 times ranked	1926 citing authors

#	Article	IF	Citations
1	Fundamentals of Business Process Management. , 2018, , .		557
2	Process Mining Manifesto. Lecture Notes in Business Information Processing, 2012, , 169-194.	0.8	546
3	Predictive Business Process Monitoring with LSTM Neural Networks. Lecture Notes in Computer Science, 2017, , 477-492.	1.0	249
4	Automated Discovery of Process Models from Event Logs: Review and Benchmark. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 686-705.	4.0	219
5	CONFIGURABLE WORKFLOW MODELS. International Journal of Cooperative Information Systems, 2008, 17, 177-221.	0.6	181
6	APROMORE: An advanced process model repository. Expert Systems With Applications, 2011, 38, 7029-7040.	4.4	171
7	Configurable multi-perspective business process models. Information Systems, 2011, 36, 313-340.	2.4	153
8	Business Process Model Merging. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-42.	4.8	129
9	Business Process Variability Modeling. ACM Computing Surveys, 2018, 50, 1-45.	16.1	118
10	Filtering Out Infrequent Behavior from Business Process Event Logs. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 300-314.	4.0	118
11	Split miner: automated discovery of accurate and simple business process models from event logs. Knowledge and Information Systems, 2019, 59, 251-284.	2.1	114
12	Questionnaire-based variability modeling for system configuration. Software and Systems Modeling, 2009, 8, 251-274.	2.2	111
13	A recommendation system for predicting risks across multiple business process instances. Decision Support Systems, 2015, 69, 1-19.	3.5	110
14	Business Process Management. Business and Information Systems Engineering, 2016, 58, 1-6.	4.0	105
15	Managing Process Model Complexity via Concrete Syntax Modifications. IEEE Transactions on Industrial Informatics, 2011, 7, 255-265.	7.2	103
16	Preserving correctness during business process model configuration. Formal Aspects of Computing, 2010, 22, 459-482.	1.4	94
17	Managing Process Model Complexity Via Abstract Syntax Modifications. IEEE Transactions on Industrial Informatics, 2011, 7, 614-629.	7.2	89
18	Thresholds for error probability measures of business process models. Journal of Systems and Software, 2012, 85, 1188-1197.	3.3	76

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19	BPMN Miner: Automated discovery of BPMN process models with hierarchical structure. Information Systems, 2016, 56, 284-303.	2.4	62
20	Beyond Control-Flow: Extending Business Process Configuration to Roles and Objects. Lecture Notes in Computer Science, 2008, , 199-215.	1.0	60
21	Robotic Process Mining: Vision and Challenges. Business and Information Systems Engineering, 2021, 63, 301-314.	4.0	59
22	Configurable Process Models: Experiences from a Municipality Case Study. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 486-500.	0.2	58
23	Merging Business Process Models. Lecture Notes in Computer Science, 2010, , 96-113.	1.0	57
24	Supporting Risk-Informed Decisions during Business Process Execution. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 116-132.	0.2	48
25	Complete and Interpretable Conformance Checking of Business Processes. IEEE Transactions on Software Engineering, 2018, 44, 262-290.	4.3	46
26	Fast detection of exact clones in business process model repositories. Information Systems, 2013, 38, 619-633.	2.4	44
27	Efficient querying of large process model repositories. Computers in Industry, 2013, 64, 41-49.	5.7	43
28	Ensuring correctness during process configuration via partner synthesis. Information Systems, 2012, 37, 574-592.	2.4	40
29	Business process variant analysis: Survey and classification. Knowledge-Based Systems, 2021, 211, 106557.	4.0	39
30	Correctness-Preserving Configuration of Business Process Models. Lecture Notes in Computer Science, 2008, , 46-61.	1.0	39
31	Correctness Ensuring Process Configuration: An Approach Based on Partner Synthesis. Lecture Notes in Computer Science, 2010, , 95-111.	1.0	38
32	Automated discovery of structured process models from event logs: The discover-and-structure approach. Data and Knowledge Engineering, 2018, 117, 373-392.	2.1	37
33	Interactive and Incremental Business Process Model Repair. Lecture Notes in Computer Science, 2017, , 53-74.	1.0	35
34	The 4C Spectrum of Fundamental Behavioral Relations for Concurrent Systems. Lecture Notes in Computer Science, 2014, , 210-232.	1.0	33
35	Opportunities and Challenges for Process Mining in Organizations: Results of a Delphi Study. Business and Information Systems Engineering, 2021, 63, 511-527.	4.0	32
36	Automated Discovery of Structured Process Models: Discover Structured vs. Discover and Structure. Lecture Notes in Computer Science, 2016, , 313-329.	1.0	30

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37	Efficient and Accurate Retrieval of Business Process Models through Indexing. Lecture Notes in Computer Science, 2010, , 402-409.	1.0	30
38	Real-time risk monitoring in business processes: A sensor-based approach. Journal of Systems and Software, 2013, 86, 2939-2965.	3.3	29
39	Clone Detection in Repositories of Business Process Models. Lecture Notes in Computer Science, 2011, , 248-264.	1.0	29
40	Fragment-Based Version Management for Repositories of Business Process Models. Lecture Notes in Computer Science, 2011, , 20-37.	1.0	28
41	Detecting approximate clones in business process model repositories. Information Systems, 2015, 49, 102-125.	2.4	27
42	Seven Paradoxes of Business Process Management in a Hyper-Connected World. Business and Information Systems Engineering, 2021, 63, 145-156.	4.0	27
43	Understanding Business Process Models: The Costs and Benefits of Structuredness. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 31-46.	0.2	27
44	Approximate Clone Detection in Repositories of Business Process Models. Lecture Notes in Computer Science, 2012, , 302-318.	1.0	26
45	Slice, Mine and Dice: Complexity-Aware Automated Discovery of Business Process Models. Lecture Notes in Computer Science, 2013, , 49-64.	1.0	26
46	Controlled automated discovery of collections of business process models. Information Systems, 2014, 46, 85-101.	2.4	24
47	Beyond Tasks and Gateways: Discovering BPMN Models with Subprocesses, Boundary Events and Activity Markers. Lecture Notes in Computer Science, 2014, , 101-117.	1.0	24
48	Scalable Conformance Checking of Business Processes. Lecture Notes in Computer Science, 2017, , 607-627.	1.0	24
49	History-Aware, Real-Time Risk Detection in Business Processes. Lecture Notes in Computer Science, 2011, , 100-118.	1.0	22
50	Automated Error Correction of Business Process Models. Lecture Notes in Computer Science, 2011, , 148-165.	1.0	21
51	Simplifying process model abstraction: Techniques for generating model names. Information Systems, 2014, 39, 134-151.	2.4	21
52	Discovering Automatable Routines from User Interaction Logs. Lecture Notes in Business Information Processing, 2019, , 144-162.	0.8	20
53	Robust Drift Characterization from Event Streams of Business Processes. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-57.	2.5	20
54	Open Source Software for Workflow Management: The Case of YAWL. IEEE Software, 2011, 28, 16-19.	2.1	17

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55	Predicting process performance: A white‐box approach based on process models. Journal of Software: Evolution and Process, 2019, 31, e2170.	1.2	17
56	Toward Web-Scale Workflows for Film Production. IEEE Internet Computing, 2008, 12, 53-61.	3.2	16
57	White-box prediction of process performance indicators via flow analysis. , 2017, , .		15
58	Automated discovery of declarative process models with correlated data conditions. Information Systems, 2020, 89, 101482.	2.4	15
59	A Probabilistic Approach to Event-Case Correlation for Process Mining. Lecture Notes in Computer Science, 2019, , 136-152.	1.0	14
60	Linking Domain Models and Process Models for Reference Model Configuration. Lecture Notes in Computer Science, 2008, , 417-430.	1.0	13
61	Understanding user differences in open-source workflow management system usage intentions. Information Systems, 2012, 37, 200-212.	2.4	12
62	Stage-based discovery of business process models from event logs. Information Systems, 2019, 84, 214-237.	2.4	12
63	Scalable alignment of process models and event logs: An approach based on automata and S-components. Information Systems, 2020, 94, 101561.	2.4	11
64	Measuring Fitness and Precision of Automatically Discovered Process Models: A Principled and Scalable Approach. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	10
65	Local Concurrency Detection in Business Process Event Logs. ACM Transactions on Internet Technology, 2019, 19, 1-23.	3.0	9
66	Indexing and Efficient Instance-Based Retrieval of Process Models Using Untanglings. Lecture Notes in Computer Science, 2014, , 439-456.	1.0	8
67	Grundlagen des Geschäftsprozessmanagements. , 2021, , .		7
68	A Framework for Estimating Simplicity of Automatically Discovered Process Models Based on Structural and Behavioral Characteristics. Lecture Notes in Computer Science, 2020, , 129-146.	1.0	6
69	Domain-Driven Process Adaptation in Emergency Scenarios. Lecture Notes in Business Information Processing, 2009, , 290-297.	0.8	6
70	Discovering data transfer routines from user interaction logs. Information Systems, 2022, 107, 101916.	2.4	6
71	Automated Risk Mitigation in Business Processes. Lecture Notes in Computer Science, 2012, , 212-231.	1.0	5
72	The Rise of Enforceable Business Processes from the Hashes of Blockchain-Based Smart Contracts. Lecture Notes in Business Information Processing, 2019, , 130-138.	0.8	5

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73	Untanglings: a novel approach to analyzing concurrent systems. Formal Aspects of Computing, 2015, 27, 753-788.	1.4	4
74	Interview with Michael Rosemann on "The Role of Business Process Management in Modern Organizations". Business and Information Systems Engineering, 2016, 58, 89-91.	4.0	4
75	Discovering Characteristics of Stochastic Collections of Process Models. Lecture Notes in Computer Science, 2011, , 298-312.	1.0	4
76	Automated Repair of Process Models Using Non-local Constraints. Lecture Notes in Computer Science, 2020, , 280-300.	1.0	4
77	Process Discovery. , 2013, , 155-184.		2
78	Optimization framework for DFG-based automated process discovery approaches. Software and Systems Modeling, 2021, 20, 1245-1270.	2.2	2
79	Robotic Process Mining. Lecture Notes in Business Information Processing, 2022, , 468-491.	0.8	2
80	Strategic business process management. , 2015, , .		1
81	Process Discovery. , 2018, , 159-212.		1
82	Automated Discovery of Process Models with True Concurrency and Inclusive Choices. Lecture Notes in Business Information Processing, 2021, , 43-56.	0.8	1
83	Einführung in das Geschäftsprozessmanagement. , 2021, , 1-38.		1
84	Advanced Process Modeling. , 2013, , 97-153.		0
85	BISE – Call for Papers Issue 1/2016. Business and Information Systems Engineering, 2014, 6, 309-310.	4.0	0
86	Special issue on best papers from the "BPM 2012"workshops. Information Systems and E-Business Management, 2015, 13, 1-3.	2.2	0
87	Essential Process Modeling. , 2018, , 75-115.		0
88	Checking Business Process Correctness in Apromore. Lecture Notes in Business Information Processing, 2018, , 114-123.	0.8	0
89	Prozessorientierte. , 2021, , 399-432.		0
90	Fortgeschrittene Prozessmodellierung. , 2021, , 135-181.		0

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91	BPM als Unternehmensfähigkeit. , 2021, , 553-585.		0
92	Quantitative Prozessanalyse. , 2021, , 299-346.		0
93	Prozesserhebung. , 2021, , 183-247.		0
94	Prozessidentifikation. , 2021, , 39-83.		0
95	Prozessüberwachung. , 2021, , 481-551.		0
96	Structural and Behavioral Biases in Process Comparison Using Models and Logs. Lecture Notes in Computer Science, 2021, , 62-73.	1.0	0
97	Automated Repair of Process Models with Non-local Constraints Using State-Based Region Theory. Fundamenta Informaticae, 2022, 183, 293-317.	0.3	0