

# Marcello La Rosa

## List of Publications by Year in descending order

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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	Discovering data transfer routines from user interaction logs. Information Systems, 2022, 107, 101916.	2.4	6
2	Automated Repair of Process Models with Non-local Constraints Using State-Based Region Theory. Fundamenta Informaticae, 2022, 183, 293-317.	0.3	0
3	Robotic Process Mining. Lecture Notes in Business Information Processing, 2022, , 468-491.	0.8	2
4	Seven Paradoxes of Business Process Management in a Hyper-Connected World. Business and Information Systems Engineering, 2021, 63, 145-156.	4.0	27
5	Robotic Process Mining: Vision and Challenges. Business and Information Systems Engineering, 2021, 63, 301-314.	4.0	59
6	Business process variant analysis: Survey and classification. Knowledge-Based Systems, 2021, 211, 106557.	4.0	39
7	Prozessorientierte. , 2021, , 399-432.		0
8	Fortgeschrittene Prozessmodellierung. , 2021, , 135-181.		0
9	Automated Discovery of Process Models with True Concurrency and Inclusive Choices. Lecture Notes in Business Information Processing, 2021, , 43-56.	0.8	1
10	BPM als Unternehmensfähigkeit. , 2021, , 553-585.		0
11	Quantitative Prozessanalyse. , 2021, , 299-346.		0
12	Prozesserhebung. , 2021, , 183-247.		0
13	Einführung in das Geschäftsprozessmanagement. , 2021, , 1-38.		1
14	Prozessidentifikation. , 2021, , 39-83.		0
15	Optimization framework for DFG-based automated process discovery approaches. Software and Systems Modeling, 2021, 20, 1245-1270.	2.2	2
16	Grundlagen des Geschäftsprozessmanagements. , 2021, , .		7
17	Prozessüberwachung. , 2021, , 481-551.		0
18	Structural and Behavioral Biases in Process Comparison Using Models and Logs. Lecture Notes in Computer Science, 2021, , 62-73.	1.0	0

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19	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
20	Automated discovery of declarative process models with correlated data conditions. Information Systems, 2020, 89, 101482.	2.4	15
21	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
22	Scalable alignment of process models and event logs: An approach based on automata and S-components. Information Systems, 2020, 94, 101561.	2.4	11
23	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
24	Robust Drift Characterization from Event Streams of Business Processes. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-57.	2.5	20
25	Automated Repair of Process Models Using Non-local Constraints. Lecture Notes in Computer Science, 2020, , 280-300.	1.0	4
26	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
27	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
28	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
29	Stage-based discovery of business process models from event logs. Information Systems, 2019, 84, 214-237.	2.4	12
30	Local Concurrency Detection in Business Process Event Logs. ACM Transactions on Internet Technology, 2019, 19, 1-23.	3.0	9
31	Predicting process performance: A whiteâ€œbox approach based on process models. Journal of Software: Evolution and Process, 2019, 31, e2170.	1.2	17
32	Discovering Automatable Routines from User Interaction Logs. Lecture Notes in Business Information Processing, 2019, , 144-162.	0.8	20
33	A Probabilistic Approach to Event-Case Correlation for Process Mining. Lecture Notes in Computer Science, 2019, , 136-152.	1.0	14
34	Business Process Variability Modeling. ACM Computing Surveys, 2018, 50, 1-45.	16.1	118
35	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
36	Essential Process Modeling. , 2018, , 75-115.		0

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37	Process Discovery. , 2018, , 159-212.		1
38	Complete and Interpretable Conformance Checking of Business Processes. IEEE Transactions on Software Engineering, 2018, 44, 262-290.	4.3	46
39	Checking Business Process Correctness in Apomore. Lecture Notes in Business Information Processing, 2018, , 114-123.	0.8	0
40	Fundamentals of Business Process Management. , 2018, , .		557
41	White-box prediction of process performance indicators via flow analysis. , 2017, , .		15
42	Filtering Out Infrequent Behavior from Business Process Event Logs. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 300-314.	4.0	118
43	Predictive Business Process Monitoring with LSTM Neural Networks. Lecture Notes in Computer Science, 2017, , 477-492.	1.0	249
44	Scalable Conformance Checking of Business Processes. Lecture Notes in Computer Science, 2017, , 607-627.	1.0	24
45	Interactive and Incremental Business Process Model Repair. Lecture Notes in Computer Science, 2017, , 53-74.	1.0	35
46	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
47	Business Process Management. Business and Information Systems Engineering, 2016, 58, 1-6.	4.0	105
48	BPMN Miner: Automated discovery of BPMN process models with hierarchical structure. Information Systems, 2016, 56, 284-303.	2.4	62
49	Automated Discovery of Structured Process Models: Discover Structured vs. Discover and Structure. Lecture Notes in Computer Science, 2016, , 313-329.	1.0	30
50	Detecting approximate clones in business process model repositories. Information Systems, 2015, 49, 102-125.	2.4	27
51	Special issue on best papers from the "BPM 2012" workshops. Information Systems and E-Business Management, 2015, 13, 1-3.	2.2	0
52	Untanglings: a novel approach to analyzing concurrent systems. Formal Aspects of Computing, 2015, 27, 753-788.	1.4	4
53	Strategic business process management. , 2015, , .		1
54	A recommendation system for predicting risks across multiple business process instances. Decision Support Systems, 2015, 69, 1-19.	3.5	110

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55	BISE " Call for Papers Issue 1/2016. Business and Information Systems Engineering, 2014, 6, 309-310.	4.0	0
56	Controlled automated discovery of collections of business process models. Information Systems, 2014, 46, 85-101.	2.4	24
57	Simplifying process model abstraction: Techniques for generating model names. Information Systems, 2014, 39, 134-151.	2.4	21
58	The 4C Spectrum of Fundamental Behavioral Relations for Concurrent Systems. Lecture Notes in Computer Science, 2014, , 210-232.	1.0	33
59	Indexing and Efficient Instance-Based Retrieval of Process Models Using Untanglings. Lecture Notes in Computer Science, 2014, , 439-456.	1.0	8
60	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
61	Supporting Risk-Informed Decisions during Business Process Execution. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2013, , 116-132.	0.2	48
62	Business Process Model Merging. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-42.	4.8	129
63	Real-time risk monitoring in business processes: A sensor-based approach. Journal of Systems and Software, 2013, 86, 2939-2965.	3.3	29
64	Fast detection of exact clones in business process model repositories. Information Systems, 2013, 38, 619-633.	2.4	44
65	Advanced Process Modeling. , 2013, , 97-153.		0
66	Process Discovery. , 2013, , 155-184.		2
67	Efficient querying of large process model repositories. Computers in Industry, 2013, 64, 41-49.	5.7	43
68	Slice, Mine and Dice: Complexity-Aware Automated Discovery of Business Process Models. Lecture Notes in Computer Science, 2013, , 49-64.	1.0	26
69	Approximate Clone Detection in Repositories of Business Process Models. Lecture Notes in Computer Science, 2012, , 302-318.	1.0	26
70	Automated Risk Mitigation in Business Processes. Lecture Notes in Computer Science, 2012, , 212-231.	1.0	5
71	Ensuring correctness during process configuration via partner synthesis. Information Systems, 2012, 37, 574-592.	2.4	40
72	Understanding user differences in open-source workflow management system usage intentions. Information Systems, 2012, 37, 200-212.	2.4	12

#	ARTICLE	IF	CITATIONS
73	Thresholds for error probability measures of business process models. Journal of Systems and Software, 2012, 85, 1188-1197.	3.3	76
74	Process Mining Manifesto. Lecture Notes in Business Information Processing, 2012, , 169-194.	0.8	546
75	Understanding Business Process Models: The Costs and Benefits of Structuredness. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 31-46.	0.2	27
76	Managing Process Model Complexity Via Abstract Syntax Modifications. IEEE Transactions on Industrial Informatics, 2011, 7, 614-629.	7.2	89
77	Managing Process Model Complexity via Concrete Syntax Modifications. IEEE Transactions on Industrial Informatics, 2011, 7, 255-265.	7.2	103
78	History-Aware, Real-Time Risk Detection in Business Processes. Lecture Notes in Computer Science, 2011, , 100-118.	1.0	22
79	Automated Error Correction of Business Process Models. Lecture Notes in Computer Science, 2011, , 148-165.	1.0	21
80	Open Source Software for Workflow Management: The Case of YAWL. IEEE Software, 2011, 28, 16-19.	2.1	17
81	APROMORE: An advanced process model repository. Expert Systems With Applications, 2011, 38, 7029-7040.	4.4	171
82	Configurable multi-perspective business process models. Information Systems, 2011, 36, 313-340.	2.4	153
83	Clone Detection in Repositories of Business Process Models. Lecture Notes in Computer Science, 2011, , 248-264.	1.0	29
84	Discovering Characteristics of Stochastic Collections of Process Models. Lecture Notes in Computer Science, 2011, , 298-312.	1.0	4
85	Fragment-Based Version Management for Repositories of Business Process Models. Lecture Notes in Computer Science, 2011, , 20-37.	1.0	28
86	Preserving correctness during business process model configuration. Formal Aspects of Computing, 2010, 22, 459-482.	1.4	94
87	Merging Business Process Models. Lecture Notes in Computer Science, 2010, , 96-113.	1.0	57
88	Correctness Ensuring Process Configuration: An Approach Based on Partner Synthesis. Lecture Notes in Computer Science, 2010, , 95-111.	1.0	38
89	Efficient and Accurate Retrieval of Business Process Models through Indexing. Lecture Notes in Computer Science, 2010, , 402-409.	1.0	30
90	Questionnaire-based variability modeling for system configuration. Software and Systems Modeling, 2009, 8, 251-274.	2.2	111

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91	Domain-Driven Process Adaptation in Emergency Scenarios. Lecture Notes in Business Information Processing, 2009, , 290-297.	0.8	6
92	Configurable Process Models: Experiences from a Municipality Case Study. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 486-500.	0.2	58
93	Toward Web-Scale Workflows for Film Production. IEEE Internet Computing, 2008, 12, 53-61.	3.2	16
94	CONFIGURABLE WORKFLOW MODELS. International Journal of Cooperative Information Systems, 2008, 17, 177-221.	0.6	181
95	Linking Domain Models and Process Models for Reference Model Configuration. Lecture Notes in Computer Science, 2008, , 417-430.	1.0	13
96	Correctness-Preserving Configuration of Business Process Models. Lecture Notes in Computer Science, 2008, , 46-61.	1.0	39
97	Beyond Control-Flow: Extending Business Process Configuration to Roles and Objects. Lecture Notes in Computer Science, 2008, , 199-215.	1.0	60