

# Luigi Pontieri

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

1,705  
citations

516215

16  
h-index

301761

39  
g-index

80  
all docs

80  
docs citations

80  
times ranked

931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Process Mining Manifesto. Lecture Notes in Business Information Processing, 2012, , 169-194.	0.8	546
2	Discovering expressive process models by clustering log traces. IEEE Transactions on Knowledge and Data Engineering, 2006, 18, 1010-1027.	4.0	262
3	Fast detection of XML structural similarity. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 160-175.	4.0	92
4	Discovering Context-Aware Models for Predicting Business Process Performances. Lecture Notes in Computer Science, 2012, , 287-304.	1.0	72
5	Mining usage scenarios in business processes: Outlier-aware discovery and run-time prediction. Data and Knowledge Engineering, 2011, 70, 1005-1029.	2.1	54
6	Mining taxonomies of process models. Data and Knowledge Engineering, 2008, 67, 74-102.	2.1	42
7	Mining Expressive Process Models by Clustering Workflow Traces. Lecture Notes in Computer Science, 2004, , 52-62.	1.0	40
8	Outlier Detection Techniques for Process Mining Applications. , 2008, , 150-159.		37
9	On learning effective ensembles of deep neural networks for intrusion detection. Information Fusion, 2021, 72, 48-69.	11.7	34
10	Mining Predictive Process Models out of Low-level Multidimensional Logs. Lecture Notes in Computer Science, 2014, , 533-547.	1.0	31
11	Process Discovery under Precedence Constraints. ACM Transactions on Knowledge Discovery From Data, 2015, 9, 1-39.	2.5	27
12	Efficiently interpreting traces of low level events in business process logs. Information Systems, 2018, 73, 1-24.	2.4	25
13	Intensional and extensional integration and abstraction of heterogeneous databases. Data and Knowledge Engineering, 2000, 35, 201-237.	2.1	21
14	An Ontology-Driven Process Modeling Framework. Lecture Notes in Computer Science, 2004, , 13-23.	1.0	18
15	Exploiting structural similarity for effective Web information extraction. Data and Knowledge Engineering, 2007, 60, 222-234.	2.1	17
16	Coclustering Multiple Heterogeneous Domains: Linear Combinations and Agreements. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1649-1663.	4.0	17
17	A Robust and Versatile Multi-View Learning Framework for the Detection of Deviant Business Process Instances. International Journal of Cooperative Information Systems, 2016, 25, 1740003.	0.6	17
18	Improving range query estimation on histograms. , 0, , .		16

#	ARTICLE	IF	CITATIONS
19	Enhancing histograms by tree-like bucket indices. VLDB Journal, 2008, 17, 1041-1061.	2.7	16
20	Mining Multi-variant Process Models from Low-Level Logs. Lecture Notes in Business Information Processing, 2015, , 165-177.	0.8	15
21	Discovering High-Level Performance Models for Ticket Resolution Processes. Lecture Notes in Computer Science, 2013, , 275-282.	1.0	15
22	A multi-view multi-dimensional ensemble learning approach to mining business process deviances. , 2016, , .		14
23	A GP-based ensemble classification framework for time-changing streams of intrusion detection data. Soft Computing, 2020, 24, 17541-17560.	2.1	14
24	A Cloud-Based Prediction Framework for Analyzing Business Process Performances. Lecture Notes in Computer Science, 2016, , 63-80.	1.0	14
25	Online and offline classification of traces of event logs on the basis of security risks. Journal of Intelligent Information Systems, 2018, 50, 195-230.	2.8	13
26	Predictive monitoring of temporally-aggregated performance indicators of business processes against low-level streaming events. Information Systems, 2019, 81, 236-266.	2.4	13
27	Process Discovery from Low-Level Event Logs. Lecture Notes in Computer Science, 2018, , 257-273.	1.0	10
28	A Multi-view Learning Approach to the Discovery of Deviant Process Instances. Lecture Notes in Computer Science, 2015, , 146-165.	1.0	10
29	A Prediction Framework for Proactively Monitoring Aggregate Process-Performance Indicators. , 2015, , .		9
30	A novel three-level architecture for large data warehouses. Journal of Systems Architecture, 2002, 47, 937-958.	2.5	8
31	An ensemble-based approach to the security-oriented classification of low-level log traces. Expert Systems With Applications, 2020, 153, 113386.	4.4	8
32	Context-Aware Predictions on Business Processes: An Ensemble-Based Solution. Lecture Notes in Computer Science, 2013, , 215-229.	1.0	8
33	Integrating and Managing Conflicting Data. Lecture Notes in Computer Science, 2001, , 349-362.	1.0	7
34	An approach for the extensional integration of data sources with heterogeneous representation formats. Data and Knowledge Engineering, 2003, 45, 291-331.	2.1	7
35	A prototypal environment for collaborative work within a research organization. , 0, , .		7
36	An Incremental Clustering Scheme for Duplicate Detection in Large Databases. , 0, , .		7

#	ARTICLE	IF	CITATIONS
37	Discovering expressive process models from noised log data. , 2009, , .		7
38	Mining Constrained Graphs: The Case of Workflow Systems. Lecture Notes in Computer Science, 2006, , 155-171.	1.0	7
39	A Data-Driven Prediction Framework for Analyzing and Monitoring Business Process Performances. Lecture Notes in Business Information Processing, 2014, , 100-117.	0.8	7
40	Learning Effective Neural Nets for Outcome Prediction from Partially Labelled Log Data. , 2019, , .		6
41	AI-Empowered Process Mining for Complex Application Scenarios: Survey and Discussion. Journal on Data Semantics, 2021, 10, 77-106.	2.0	6
42	A Probabilistic Unified Framework for Event Abstraction and Process Detection from Log Data. Lecture Notes in Computer Science, 2015, , 320-328.	1.0	6
43	Process Mining meets argumentation: Explainable interpretations of low-level event logs via abstract argumentation. Information Systems, 2022, 107, 101987.	2.4	6
44	Discovering Multi-perspective Process Models: The Case of Loosely-Structured Processes. Lecture Notes in Business Information Processing, 2009, , 130-143.	0.8	5
45	A descriptive clustering approach to the analysis of quantitative business-process deviances. , 2017, , .		5
46	Scalable parallel co-clustering over multiple heterogeneous data types. , 2010, , .		4
47	Combining deep ensemble learning and explanation for intelligent ticket management. Expert Systems With Applications, 2022, 206, 117815.	4.4	4
48	A Predictive Learning Framework for Monitoring Aggregated Performance Indicators over Business Process Events. , 2018, , .		3
49	A Hybrid Technique for Data Mining on Balance-Sheet Data. Lecture Notes in Computer Science, 2000, , 419-424.	1.0	3
50	A Multi-view Ensemble of Deep Models for the Detection of Deviant Process Instances. Communications in Computer and Information Science, 2020, , 249-262.	0.4	3
51	Semi-Supervised Discovery of DNN-Based Outcome Predictors from Scarcely-Labeled Process Logs. Business and Information Systems Engineering, 2022, 64, 729-749.	4.0	3
52	A compression-based framework for the efficient analysis of business process logs. , 2015, , .		2
53	Classifying Traces of Event Logs on the Basis of Security Risks. Lecture Notes in Computer Science, 2016, , 108-124.	1.0	2
54	Deviance-Aware Discovery of High Quality Process Models. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Deviance-Aware Discovery of High-Quality Process Models. International Journal on Artificial Intelligence Tools, 2018, 27, 1860009.	0.7	2
56	An Approach to the Discovery of Accurate and Expressive Fix-Time Prediction Models. Lecture Notes in Business Information Processing, 2015, , 108-128.	0.8	2
57	Experimenting and Assessing a Probabilistic Business Process Deviance Mining Framework Based on Ensemble Learning. Lecture Notes in Business Information Processing, 2018, , 96-124.	0.8	2
58	Extensions, Analysis and Experimental Assessment of a Probabilistic Ensemble-learning Framework for Detecting Deviances in Business Process Instances. , 2017, , .		2
59	Business Process Deviance Mining. , 2019, , 389-398.		2
60	Effective Incremental Clustering for Duplicate Detection in Large Databases. , 2006, , .		1
61	An Information-Theoretic Framework for Process Structure and Data Mining. International Journal of Data Warehousing and Mining, 2007, 3, 99-119.	0.4	1
62	How, Who and When. , 2016, , .		1
63	20+ Years of Analytics on Complex Data: Impact, Issues, Challenges and Contributions. Studies in Big Data, 2018, , 353-374.	0.8	1
64	An Ensemble-Based P2P Framework for the Detection of Deviant Business Process Instances. , 2018, , .		1
65	A p2p environment to validate ensemble-based approaches in the cybersecurity domain. , 2020, , .		1
66	A Cybersecurity Framework for Classifying Non Stationary Data Streams Exploiting Genetic Programming and Ensemble Learning. Lecture Notes in Computer Science, 2020, , 269-277.	1.0	1
67	Combining Model- and Example-Driven Classification to Detect Security Breaches in Activity-Unaware Logs. Lecture Notes in Computer Science, 2018, , 173-190.	1.0	1
68	A Data Mining-based Framework for GridWorkflow Management. , 0, , .		0
69	Methods and techniques for discovering taxonomies of behavioral process models. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2013, 3, 170-189.	4.6	0
70	A Peer-to-Peer Architecture for Detecting Attacks from Network Traffic and Log Data. , 2017, , .		0
71	Using genetic programming for combining an ensemble of local and global outlier algorithms to detect new attacks. , 2019, , .		0
72	Combining Different Data Mining Techniques to Improve Data Analysis. , 2001, , 455-464.		0

#	ARTICLE	IF	CITATIONS
73	An Information-Theoretic Framework for Process Structure and Data Mining. , 2008, , 810-830.		0
74	Pushing More AI Capabilities into Process Mining to Better Deal with Low-Quality Logs. Lecture Notes in Business Information Processing, 2019, , 5-11.	0.8	0