

Jan J Vanthienen

List of Publications by Year in descending order

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Version: 2024-02-01

176
papers

6,992
citations

93792

39
h-index

75989

78
g-index

189
all docs

189
docs citations

189
times ranked

4889
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital transformation as an interaction-driven perspective between business, society, and technology. <i>Electronic Markets</i> , 2022, 32, 629-644.	4.4	81
2	Extracting Decision Dependencies and Decision Logic from Text Using Deep Learning Techniques. <i>Lecture Notes in Business Information Processing</i> , 2022, , 349-361.	0.8	4
3	Investigating public intention to use shared mobility in Belgium through a survey. <i>Case Studies on Transport Policy</i> , 2022, 10, 472-484.	1.1	6
4	Consolidating Academic and Practical Guidelines for Digital Transformation. <i>Lecture Notes in Business Information Processing</i> , 2022, , 279-290.	0.8	1
5	Business process redesign towards IoT-enabled context-awareness: the case of a Chinese bulk port. <i>Business Process Management Journal</i> , 2022, 28, 656-683.	2.4	6
6	Decisions, advice and explanation: an overview and research agenda. , 2021, , .		10
7	An Overview of Methods for Acquiring and Generating Decision Models. <i>Lecture Notes in Computer Science</i> , 2021, , 200-208.	1.0	0
8	The Impact of Online Delivery Services on the Financial Performance of Restaurants. , 2021, , .		5
9	Preface to the Special Issue on Process Querying and Declarative, Decision and Hybrid Approaches to Processes 2019. <i>Journal on Data Semantics</i> , 2021, 10, 107.	2.0	0
10	Automatic Generation of Intelligent Chatbots from DMN Decision Models. <i>Lecture Notes in Computer Science</i> , 2021, , 142-157.	1.0	2
11	Deep Learning for the Identification of Decision Modelling Components from Text. <i>Lecture Notes in Computer Science</i> , 2021, , 158-171.	1.0	3
12	From decision knowledge to e-government expert systems: the case of income taxation for foreign artists in Belgium. <i>Knowledge and Information Systems</i> , 2020, 62, 2011-2028.	2.1	6
13	Recommendations for enhancing the usability and understandability of process mining in healthcare. <i>Artificial Intelligence in Medicine</i> , 2020, 109, 101962.	3.8	32
14	Fraud Detection of Bulk Cargo Theft in Port Using Bayesian Network Models. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1056.	1.3	12
15	Text2Dec: Extracting Decision Dependencies from Natural Language Text for Automated DMN Decision Modelling. <i>Lecture Notes in Business Information Processing</i> , 2020, , 367-379.	0.8	11
16	Cross-language Keyword Analysis of Digital Transformation for Business. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2020, , 67-80.	0.5	0
17	Benchmarking Stacking Against Other Heterogeneous Ensembles in Telecom Churn Prediction. , 2020, , .		0
18	Holistic discovery of decision models from process execution data. <i>Knowledge-Based Systems</i> , 2019, 183, 104866.	4.0	17

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19	Towards a comprehensive understanding of the context concepts in context-aware business processes. , 2019, , .		8
20	Context-Aware BPM Using IoT-Integrated Context Ontologies and IoT-Enhanced Decision Models. , 2019, , .		15
21	Complexity metrics for DMN decision models. Computer Standards and Interfaces, 2019, 65, 15-37.	3.8	14
22	Measuring the Complexity of DMN Decision Models. Lecture Notes in Business Information Processing, 2019, , 514-526.	0.8	3
23	The value of big data for credit scoring: Enhancing financial inclusion using mobile phone data and social network analytics. Applied Soft Computing Journal, 2019, 74, 26-39.	4.1	111
24	Closing the Gap Between Experts and Novices Using Analytics-as-a-Service: An Experimental Study. Business and Information Systems Engineering, 2019, 61, 679-693.	4.0	2
25	A DMN-Based Method for Context-Aware Business Process Modeling Towards Process Variability. Lecture Notes in Business Information Processing, 2019, , 176-188.	0.8	3
26	What Roles Do Decisions Play in Context-aware Business Process Management?. , 2019, , .		3
27	Developing a Modelling and Mining Framework for Integrated Processes and Decisions. Lecture Notes in Computer Science, 2018, , 259-269.	1.0	5
28	Time series for early churn detection: Using similarity based classification for dynamic networks. Expert Systems With Applications, 2018, 106, 55-65.	4.4	36
29	Predicting tax avoidance by means of social network analytics. Decision Support Systems, 2018, 108, 13-24.	3.5	23
30	Augmenting processes with decision intelligence: Principles for integrated modelling. Decision Support Systems, 2018, 107, 1-12.	3.5	40
31	Profit-Based Model Selection for Customer Retention Using Individual Customer Lifetime Values. Big Data, 2018, 6, 53-65.	2.1	15
32	Predicting interpurchase time in a retail environment using customer-product networks: An empirical study and evaluation. Expert Systems With Applications, 2018, 104, 22-32.	4.4	7
33	Discovering hidden dependencies in constraint-based declarative process models for improving understandability. Information Systems, 2018, 74, 40-52.	2.4	19
34	A Data-driven Fault Prediction Method for LNG Engine City Buses. , 2018, , .		1
35	Redesigning Processes for Decision-Awareness: Strategies for Integrated Modelling. , 2018, , .		3
36	Towards Improving Context Interpretation in the IoT Paradigm. , 2018, , .		9

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37	Challenges in Refactoring Processes to Include Decision Modelling. Lecture Notes in Business Information Processing, 2018, , 529-541.	0.8	10
38	A Case-Based Inquiry into the Decision Model and Notation (DMN) and the Knowledge Base (KB) Paradigm. Lecture Notes in Computer Science, 2018, , 248-263.	1.0	6
39	Defining analytics maturity indicators: A survey approach. International Journal of Information Management, 2017, 37, 114-124.	10.5	79
40	Social network analytics for churn prediction in telco: Model building, evaluation and network architecture. Expert Systems With Applications, 2017, 85, 204-220.	4.4	64
41	Decision Mining in a Broader Context: An Overview of the Current Landscape and Future Directions. Lecture Notes in Business Information Processing, 2017, , 197-207.	0.8	14
42	Towards a Holistic Discovery of Decisions in Process-Aware Information Systems. Lecture Notes in Computer Science, 2017, , 183-199.	1.0	22
43	A Service-Oriented Architecture Design of Decision-Aware Information Systems: Decision as a Service. Lecture Notes in Computer Science, 2017, , 353-361.	1.0	9
44	Model Checking of Mixed-Paradigm Process Models in a Discovery Context. Lecture Notes in Business Information Processing, 2017, , 74-86.	0.8	1
45	A comparative study of social network classifiers for predicting churn in the telecommunication industry. , 2016, , .		6
46	On the gap between reality and registration: a business event analysis classification framework. Information Technology and Management, 2016, 17, 393-410.	1.4	3
47	Gamification of Declarative Process Models for Learning and Model Verification. Lecture Notes in Business Information Processing, 2016, , 432-443.	0.8	7
48	A guide for the application of analytics on healthcare processes: A dynamic view on patient pathways. Computers in Biology and Medicine, 2016, 77, 125-134.	3.9	28
49	Improving Understandability of Declarative Process Models by Revealing Hidden Dependencies. Lecture Notes in Computer Science, 2016, , 83-98.	1.0	16
50	Exploring business process modelling paradigms and design-time to run-time transitions. Enterprise Information Systems, 2016, 10, 790-813.	3.3	6
51	Enabling flexible location-aware business process modeling and execution. Decision Support Systems, 2016, 83, 1-9.	3.5	21
52	Mixed-Paradigm Process Modeling with Intertwined State Spaces. Business and Information Systems Engineering, 2016, 58, 19-29.	4.0	27
53	Modeling and Enacting Enterprise Decisions. Lecture Notes in Business Information Processing, 2016, , 169-180.	0.8	5
54	Transformational Issues of Big Data and Analytics in Networked Business. MIS Quarterly: Management Information Systems, 2016, 40, 807-818.	3.1	170

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55	A Full R/I-Net Construct Lexicon for Declare Constraints. SSRN Electronic Journal, 2015, , .	0.4	5
56	Context-adaptive Petri nets: Supporting adaptation for the execution context. Expert Systems With Applications, 2015, 42, 9307-9317.	4.4	29
57	Fusion Miner: Process discovery for mixed-paradigm models. Decision Support Systems, 2015, 77, 123-136.	3.5	28
58	Declarative business process modelling: principles and modelling languages. Enterprise Information Systems, 2015, 9, 161-185.	3.3	46
59	Towards Location-Aware Process Modeling and Execution. Lecture Notes in Business Information Processing, 2015, , 186-197.	0.8	0
60	Extending CPN Tools with Ontologies to Support the Management of Context-Adaptive Business Processes. Lecture Notes in Business Information Processing, 2015, , 198-209.	0.8	1
61	Multi-Paradigm Process Mining: Retrieving Better Models by Combining Rules and Sequences. SSRN Electronic Journal, 2014, , .	0.4	2
62	Making Business Environments Smarter: A Context-Adaptive Petri Net Approach. , 2014, , .		1
63	Declarative process discovery with evolutionary computing. , 2014, , .		2
64	Uncovering the Relationship Between Event Log Characteristics and Process Discovery Techniques. Lecture Notes in Business Information Processing, 2014, , 41-53.	0.8	5
65	Acquiring logistics process intelligence: Methodology and an application for a Chinese bulk port. Expert Systems With Applications, 2014, 41, 195-209.	4.4	55
66	Monitoring care processes in the gynecologic oncology department. Computers in Biology and Medicine, 2014, 44, 88-96.	3.9	44
67	A dynamic understanding of customer behavior processes based on clustering and sequence mining. Expert Systems With Applications, 2014, 41, 4648-4657.	4.4	25
68	Determining Process Model Precision and Generalization with Weighted Artificial Negative Events. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1877-1889.	4.0	60
69	Business Process Management Workshops. Lecture Notes in Business Information Processing, 2014, , .	0.8	6
70	A Process Mining-Based Investigation of Adverse Events in Care Processes. Health Information Management Journal, 2014, 43, 16-25.	0.9	26
71	Event-Based Real-Time Decomposed Conformance Analysis. Lecture Notes in Computer Science, 2014, , 345-363.	1.0	24
72	Multi-paradigm Process Mining: Retrieving Better Models by Combining Rules and Sequences. Lecture Notes in Computer Science, 2014, , 446-453.	1.0	6

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73	Clinical Pathway Analytics. Journal of Information Technology Research, 2014, 7, 12-26.	0.3	1
74	Investigating Service Behavior Variance in Port Logistics from a Process Perspective. Lecture Notes in Business Information Processing, 2014, , 318-329.	0.8	0
75	Getting a Grasp on Clinical Pathway Data: An Approach Based on Process Mining. Lecture Notes in Computer Science, 2013, , 22-35.	1.0	12
76	Active Trace Clustering for Improved Process Discovery. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 2708-2720.	4.0	128
77	Healthcare Analytics: Examining the Diagnosisâ€“treatment Cycle. Procedia Technology, 2013, 9, 996-1004.	1.1	16
78	Business Rule Patterns and Their Application to Process Analytics. , 2013, , .		2
79	A comprehensive investigation of the applicability of process mining techniques for enterprise risk management. Computers in Industry, 2013, 64, 464-475.	5.7	24
80	Comprehensive rule-based compliance checking and risk management with process mining. Decision Support Systems, 2013, 54, 1357-1369.	3.5	60
81	A comprehensive benchmarking framework (CoBeFra) for conformance analysis between procedural process models and event logs in ProM. , 2013, , .		26
82	SeDeS 2013 PC Co-Chairs Message. Lecture Notes in Computer Science, 2013, , 555-555.	1.0	0
83	Leveraging process discovery with trace clustering and text mining for intelligent analysis of incident management processes. , 2012, , .		25
84	A Comprehensive Framework for the Application of Process Mining in Risk Management and Compliance Checking. SSRN Electronic Journal, 2012, , .	0.4	0
85	A multi-dimensional quality assessment of state-of-the-art process discovery algorithms using real-life event logs. Information Systems, 2012, 37, 654-676.	2.4	169
86	Process Mining Manifesto. Lecture Notes in Business Information Processing, 2012, , 169-194.	0.8	546
87	Rule-Based Business Process Mining: Applications for Management. Advances in Intelligent Systems and Computing, 2012, , 273-282.	0.5	3
88	Improved Artificial Negative Event Generation to Enhance Process Event Logs. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2012, , 254-269.	0.2	8
89	Modeling Decision Structures and Dependencies. Lecture Notes in Computer Science, 2012, , 525-533.	1.0	3
90	SeDeS 2012 PC Co-chairs Message. Lecture Notes in Computer Science, 2012, , 484-484.	1.0	0

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91	A Prototype Tool for the Event-Driven Enforcement of SBVR Business Rules. Lecture Notes in Business Information Processing, 2012, , 446-457.	0.8	3
92	A robust F-measure for evaluating discovered process models. , 2011, , .		64
93	Software Defect Prediction Based on Association Rule Classification. SSRN Electronic Journal, 2011, , .	0.4	11
94	An empirical evaluation of the comprehensibility of decision table, tree and rule based predictive models. Decision Support Systems, 2011, 51, 141-154.	3.5	257
95	Performance of classification models from a user perspective. Decision Support Systems, 2011, 51, 782-793.	3.5	91
96	Process discovery in event logs: An application in the telecom industry. Applied Soft Computing Journal, 2011, 11, 1697-1710.	4.1	55
97	A Critical Evaluation Study of Model-Log Metrics in Process Discovery. Lecture Notes in Business Information Processing, 2011, , 158-169.	0.8	12
98	An Exploratory Approach to Process Lifecycle Transitions from a Paradigm-Based Perspective. Lecture Notes in Business Information Processing, 2011, , 178-185.	0.8	3
99	SWWS 2011, MONET 2011 and SeDeS 2011 PC Co-chairsâ€™ Message. Lecture Notes in Computer Science, 2011, , 380-381.	1.0	0
100	Credit rating prediction using Ant Colony Optimization. Journal of the Operational Research Society, 2010, 61, 561-573.	2.1	49
101	50 years of data mining and OR: upcoming trends and challenges. Journal of the Operational Research Society, 2009, 60, S16-S23.	2.1	54
102	Predicting going concern opinion with data mining. Decision Support Systems, 2008, 45, 765-777.	3.5	91
103	Minerva: Sequential Covering for Rule Extraction. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 299-309.	5.5	17
104	Rule Extraction from Support Vector Machines: An Overview of Issues and Application in Credit Scoring. Studies in Computational Intelligence, 2008, , 33-63.	0.7	53
105	Rule-based business process modelling and enactment. International Journal of Business Process Integration and Management, 2008, 3, 194.	0.2	22
106	A Data Minerâ€™s Approach to Country Corruption Analysis. Studies in Computational Intelligence, 2008, , 227-247.	0.7	1
107	Process Mining as First-Order Classification Learning on Logs with Negative Events. Lecture Notes in Computer Science, 2008, , 42-53.	1.0	12
108	A Vocabulary and Execution Model for Declarative Service Orchestration. Lecture Notes in Computer Science, 2008, , 496-501.	1.0	3

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109	Semantic Decision Tables: Self-organizing and Reorganizable Decision Tables. Lecture Notes in Computer Science, 2008, , 434-449.	1.0	2
110	Classification With Ant Colony Optimization. IEEE Transactions on Evolutionary Computation, 2007, 11, 651-665.	7.5	353
111	EM-BrA2CE v0.1: A Vocabulary and Execution Model for Declarative Business Process Modeling. SSRN Electronic Journal, 2007, , .	0.4	19
112	A new approach for measuring rule set consistency. Data and Knowledge Engineering, 2007, 63, 167-182.	2.1	7
113	Forecasting and analyzing insurance companies' ratings. International Journal of Forecasting, 2007, 23, 513-529.	3.9	44
114	Inferring descriptive and approximate fuzzy rules for credit scoring using evolutionary algorithms. European Journal of Operational Research, 2007, 177, 540-555.	3.5	63
115	Comprehensible credit scoring models using rule extraction from support vector machines. European Journal of Operational Research, 2007, 183, 1466-1476.	3.5	353
116	Specifying Process-Aware Access Control Rules in SBVR. , 2007, , 39-52.		17
117	Declarative Process Modeling with Business Vocabulary and Business Rules. , 2007, , 603-612.		21
118	A Comprehensive Assessment of Modern Information Retrieval Tools. , 2007, , 263-275.		1
119	Using Rule Extraction to Improve the Comprehensibility of Predictive Models. SSRN Electronic Journal, 2006, , .	0.4	43
120	Failure prediction with self organizing maps. Expert Systems With Applications, 2006, 30, 479-487.	4.4	60
121	A process model to develop an internal rating system: Sovereign credit ratings. Decision Support Systems, 2006, 42, 1131-1151.	3.5	64
122	Evaluation of Information Retrieval and Text Mining Tools on Automatic Named Entity Extraction. Lecture Notes in Computer Science, 2006, , 666-667.	1.0	2
123	Ant-Based Approach to the Knowledge Fusion Problem. Lecture Notes in Computer Science, 2006, , 84-95.	1.0	20
124	Designing Compliant Business Processes with Obligations and Permissions. Lecture Notes in Computer Science, 2006, , 5-14.	1.0	141
125	Comprehensible Credit-Scoring Knowledge Visualization Using Decision Tables and Diagrams. , 2006, , 109-115.		5
126	Country Corruption Analysis with Self Organizing Maps and Support Vector Machines. Lecture Notes in Computer Science, 2006, , 103-114.	1.0	10

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127	ITER: An Algorithm for Predictive Regression Rule Extraction. Lecture Notes in Computer Science, 2006, , 270-279.	1.0	16
128	Intelligent Information Retrieval Tools for Police. Lecture Notes in Computer Science, 2006, , 664-665.	1.0	0
129	Knowledge Integration in Information Systems Education Through an (Inter)active Platform of Analysis and Modelling Case Studies. Lecture Notes in Computer Science, 2006, , 294-303.	1.0	0
130	Filter- versus wrapper-based feature selection for credit scoring. International Journal of Intelligent Systems, 2005, 20, 985-999.	3.3	43
131	A Comprehensible SOM-Based Scoring System. Lecture Notes in Computer Science, 2005, , 80-89.	1.0	1
132	Neural network survival analysis for personal loan data. Journal of the Operational Research Society, 2005, 56, 1089-1098.	2.1	88
133	Benchmarking Least Squares Support Vector Machine Classifiers. Machine Learning, 2004, 54, 5-32.	3.4	596
134	Bayesian network classifiers for identifying the slope of the customer lifecycle of long-life customers. European Journal of Operational Research, 2004, 156, 508-523.	3.5	106
135	Decision diagrams in machine learning: an empirical study on real-life credit-risk data. Expert Systems With Applications, 2004, 27, 257-264.	4.4	22
136	Building Intelligent Credit Scoring Systems Using Decision Tables. , 2004, , 131-137.		10
137	Improving the Scalability of Rule Base Verification Using Binary Decision Diagrams: An Empirical Study. Lecture Notes in Computer Science, 2004, , 381-395.	1.0	1
138	Efficient Rule Base Verification Using Binary Decision Diagrams. Lecture Notes in Computer Science, 2004, , 445-454.	1.0	5
139	Decision Diagrams in Machine Learning: An Empirical Study on Real-Life Credit-Risk Data. Lecture Notes in Computer Science, 2004, , 395-397.	1.0	0
140	Using Neural Network Rule Extraction and Decision Tables for Credit-Risk Evaluation. Management Science, 2003, 49, 312-329.	2.4	384
141	Benchmarking state-of-the-art classification algorithms for credit scoring. Journal of the Operational Research Society, 2003, 54, 627-635.	2.1	653
142	Comparing a genetic fuzzy and a neurofuzzy classifier for credit scoring. International Journal of Intelligent Systems, 2002, 17, 1067-1083.	3.3	36
143	Bayesian neural network learning for repeat purchase modelling in direct marketing. European Journal of Operational Research, 2002, 138, 191-211.	3.5	172
144	COMPARING A GENETIC FUZZY AND A NEUROFUZZY CLASSIFIER FOR CREDIT SCORING. , 2002, , .		4

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145	Knowledge discovery in a direct marketing case using least squares support vector machines. International Journal of Intelligent Systems, 2001, 16, 1023-1036.	3.3	53
146	Wrapped input selection using multilayer perceptrons for repeat-purchase modeling in direct marketing. Intelligent Systems in Accounting, Finance and Management, 2001, 10, 115-126.	2.8	19
147	Validation and verification of knowledge-based systems: report on EUROVAV99. Knowledge Engineering Review, 2000, 15, 187-196.	2.1	13
148	Improving a neuro-fuzzy classifier using exploratory factor analysis. International Journal of Intelligent Systems, 2000, 15, 785-800.	3.3	2
149	A synthesis of fuzzy rule-based system verification. Fuzzy Sets and Systems, 2000, 113, 253-265.	1.6	8
150	Illustrating Knowledge Base Restructuring and Verification in a Real World Application. , 1999, , 177-191.		1
151	A tool-supported approach to inter-tabular verification. Expert Systems With Applications, 1998, 15, 277-285.	4.4	26
152	Incorporating fuzziness in the classical decision table formalism. International Journal of Intelligent Systems, 1998, 11, 879-891.	3.3	3
153	An initial comparison of a fuzzy neural classifier and a decision tree based classifier. Expert Systems With Applications, 1998, 15, 375-381.	4.4	8
154	An illustration of verification and validation in the modelling phase of KBS development. Data and Knowledge Engineering, 1998, 27, 337-352.	2.1	42
155	Modelling decision tables from data. Lecture Notes in Computer Science, 1998, , 412-413.	1.0	7
156	Extending a tabular knowledge-based framework with feature selection. Expert Systems With Applications, 1997, 13, 109-119.	4.4	5
157	Integrating statistical audit evidence with belief function theory. Lecture Notes in Computer Science, 1996, , 1-14.	1.0	1
158	Integration of the decision table formalism with a relational database environment. Information Systems, 1995, 20, 595-616.	2.4	14
159	The Definition and Diffusion of Expert Systems: An Empirical Survey of Belgian External Audit Firms. Intelligent Systems in Accounting, Finance and Management, 1995, 4, 205-220.	2.8	0
160	From decision tables to expert system shells. Data and Knowledge Engineering, 1994, 13, 265-282.	2.1	43
161	Developing legal knowledge based systems using decision tables. , 1993, , .		3
162	A note on English for decision tables considered harmful and the nested IF-THEN-ELSE. ACM SIGPLAN Notices, 1985, 20, 45-47.	0.2	1

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163	Illustration of a decision table tool for specifying and implementing knowledge based systems. , 0, , .		9
164	Restructuring and optimizing knowledge representations. , 0, , .		1
165	Restructuring and simplifying rule bases. , 0, , .		3
166	Clustering knowledge in tabular knowledge bases. , 0, , .		5
167	Bankruptcy prediction with least squares support vector machine classifiers. , 0, , .		22
168	Comprehensible Credit Scoring Models using Rule Extraction from Support Vector Machines. SSRN Electronic Journal, 0, , .	0.4	6
169	An Improved Process Event Log Artificial Negative Event Generator. SSRN Electronic Journal, 0, , .	0.4	10
170	Advances in Rule-Based Process Mining: Applications for Enterprise Risk Management and Auditing. SSRN Electronic Journal, 0, , .	0.4	5
171	A Scoping Review of the Digital Transformation Literature Using Scientometric Analysis. Business Information Systems, 0, , 281-292.	0.0	4
172	Designing a Comprehensive Understanding of Digital Transformation and its Impact. , 0, , .		20
173	A New Approach for Discovering Business Process Models from Event Logs. SSRN Electronic Journal, 0, , .	0.4	5
174	Leveraging Process Discovery with Trace Clustering and Text Mining for Intelligent Analysis of Incident Management Processes. SSRN Electronic Journal, 0, , .	0.4	1
175	An Illustration of Five Principles for Integrated Process and Decision Modelling (5PDM). SSRN Electronic Journal, 0, , .	0.4	9
176	On Replaying Process Execution Traces Containing Positive and Negative Events. SSRN Electronic Journal, 0, , .	0.4	2