Tharam S Dillon

List of Publications by Year in descending order

83 papers	2,277 citations	567281 15 h-index	677142 22 g-index
83 all docs	83 docs citations	83 times ranked	2213 citing authors

#	Article	IF	Citations
1	Cloud Computing: Issues and Challenges. , 2010, , .		781
2	Neural-Network-Based Models for Short-Term Traffic Flow Forecasting Using a Hybrid Exponential Smoothing and Levenberg–Marquardt Algorithm. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 644-654.	8.0	352
3	Optimized Structure of the Traffic Flow Forecasting Model With a Deep Learning Approach. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2371-2381.	11.3	192
4	A Global Manufacturing Big Data Ecosystem for Fault Detection in Predictive Maintenance. IEEE Transactions on Industrial Informatics, 2020, 16, 183-192.	11.3	125
5	Web–of–things framework for cyber–physical systems. Concurrency Computation Practice and Experience, 2011, 23, 905-923.	2.2	71
6	Development of a Software Engineering Ontology for Multisite Software Development. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1205-1217.	5.7	66
7	Missing Value Imputation for Industrial IoT Sensor Data With Large Gaps. IEEE Internet of Things Journal, 2020, 7, 6855-6867.	8.7	66
8	Optimized Configuration of Exponential Smoothing and Extreme Learning Machine for Traffic Flow Forecasting. IEEE Transactions on Industrial Informatics, 2019, 15, 23-34.	11.3	58
9	Knowledge acquisition of conjunctive rules using multilayered neural networks. International Journal of Intelligent Systems, 1993, 8, 779-805.	5.7	48
10	An Integrated Framework for Health State Monitoring in a Smart Factory Employing IoT and Big Data Techniques. IEEE Internet of Things Journal, 2022, 9, 2443-2454.	8.7	39
11	Selection of Significant On-Road Sensor Data for Short-Term Traffic Flow Forecasting Using the Taguchi Method. IEEE Transactions on Industrial Informatics, 2012, 8, 255-266.	11.3	38
12	Noise Removal in the Presence of Significant Anomalies for Industrial IoT Sensor Data in Manufacturing. IEEE Internet of Things Journal, 2020, 7, 7084-7096.	8.7	33
13	Empowering IoT Predictive Maintenance Solutions With AI: A Distributed System for Manufacturing Plant-Wide Monitoring. IEEE Transactions on Industrial Informatics, 2022, 18, 1345-1354.	11.3	32
14	Cyber-physical systems: Providing Quality of Service (QoS) in a heterogeneous systems-of-systems environment. , 2011, , .		23
15	A Flexible Fuzzy Regression Method for Addressing Nonlinear Uncertainty on Aesthetic Quality Assessments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2363-2377.	9.3	22
16	Intelligent Decision Support System for Including Consumers' Preferences in Residential Energy Consumption in Smart Grid. , 2010, , .		20
17	Implementation of Industrial Cyber Physical System: Challenges and Solutions. , 2019, , .		20
18	Analysis of energy behaviour profiles of prosumers. , 2012, , .		19

#	Article	IF	Citations
19	pClass+: A Novel Evolving Semi-Supervised Classifier. International Journal of Fuzzy Systems, 2017, 19, 863-880.	4.0	17
20	Provenance-based Intrusion Detection Systems: A Survey. ACM Computing Surveys, 2023, 55, 1-36.	23.0	17
21	Human system interaction with confident computing. The mega trend. , 2008, , .		15
22	Towards Quantifying the Possible Risk in e-commerce Interactions for RDSS. , 2007, , .		14
23	A Software Engineering Ontology as Software Engineering Knowledge Representation. , 2008, , .		14
24	Trust ontologies for e-service environments. International Journal of Intelligent Systems, 2007, 22, 519-545.	5.7	12
25	Business-to-Consumer Mobile Agent-Based Internet Commerce System (MAGICS). IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 1174-1189.	2.9	11
26	A Î»-CUT APPROXIMATE ALGORITHM FOR GOAL-BASED BILEVEL RISK MANAGEMENT SYSTEMS. International Journal of Information Technology and Decision Making, 2008, 07, 589-610.	3.9	11
27	GRIDSpace: Semantic Grid Services on the Web-Evolution towards a SoftGrid. , 2007, , .		10
28	Tree Mining in Mental Health Domain. , 2008, , .		10
29	Probabilistic assessment of loss in revenue generation in demand-driven production. Journal of Intelligent Manufacturing, 2012, 23, 2069-2084.	7.3	10
30	An Ontology-Based Approach to Dynamic Contextual Role for Pervasive Access Control. , 2018, , .		10
31	Semantic Web Support for Open-Source Software Development. , 2008, , .		9
32	U3 - Mning Unordered Embedded Subtrees Using TMG Candidate Generation. , 2008, , .		9
33	A Secure Key Management Model for Wireless Mesh Networks. , 2010, , .		7
34	Ontology Support for Biomedical Information Resources. , 2008, , .		6
35	Use of UML 2.1 to Model Multi-Agent Systems based on a Goal-driven Software Engineering Ontology. , 2008, , .		6
36	Thinking PubMed: an Innovative System for Mental Health Domain. , 2008, , .		5

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37	Cyber-Physical Systems as an embodiment of Digital Ecosystems extended abstract. , 2010, , .		5
38	Handling uncertainties in modelling manufacturing processes with hybrid swarm intelligence. International Journal of Production Research, 2012, 50, 1714-1725.	7.5	5
39	Evolving type-2 recurrent fuzzy neural network. , 2016, , .		5
40	Trust based decision making approach for protein ontology. , 2007, , .		4
41	Tree Mining Application to Matching of Heterogeneous Knowledge Representations. , 2007, , .		4
42	Knowledge extraction from web-based application source code: An approach to database reverse engineering for ontology development. , 2008, , .		4
43	Conjoint Data Mining of Structured and Semi-structured Data. , 2008, , .		4
44	Current Status of Biomedical Ontologies: Developments in 2006. , 2007, , .		3
45	GRIDSpace: Semantic Grid Services on the Web-Evolution towards a SoftGrid. , 2007, , .		3
46	Detection of Fractal Breakdowns by the Novel Real-Time Pattern Detection Model (Enhanced-RTPD+Holder Exponent) for Web Applications. , 2007, , .		3
47	Mapping relational data model to OWL ontology: Knowledge conceptualization in OWL. , 2008, , .		3
48	Determining the Level of Perceived Risk in e-business Web 2.0 Interactions. , 2008, , .		3
49	Knowledge Analysis with Tree Patterns. , 2008, , .		3
50	TCM (Traditional Chinese Medicine) telemedicine with enterprise ontology support - a form of consensus-certified collective human intelligence. , 2009, , .		3
51	An abstract layered model for Webâ€‘inclusive distributed computing leading to enhancing GRIDSpace with Web 2.0. Concurrency Computation Practice and Experience, 2009, 21, 605-634.	2.2	3
52	Ascertaining the Financial Loss from Non-dependable Events in Business Interactions by Using the Monte Carlo Method. , 2009, , .		3
53	Quantifying the Possible Financial Consequences of Failure for making a Risk Based Decision. , 2007, , .		2
54	Determining the Loss of Investment Probability for Risk based Decision Support System. , 2007, , .		2

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55	Ascertaining the Semantic and Linguistic Level of Perceived Risk in e-Business Interactions. , 2008, , .		2
56	Intelligent Matching for Public Internet Web Services Towards Semi-Automatic Internet Services Mashup. , 2009, , .		2
57	Quantifying the Loss in Resource Benefit for Risk based Decision in Digital Business Ecosystem. , 2007, , .		1
58	Quantifying Failure for Risk Based Decision Making in Digital Business Ecosystem Interactions. , 2007, , .		1
59	Quantifying the level of failure in a digital business ecosystem interactions. , 2007, , .		1
60	Protein Ontology Project in 2007: Looking Backward and Forward. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	1
61	Ascertaining Risk in Financial Terms in Digital Business Ecosystem Environments. , 2007, , .		1
62	Ontology algebra for composition of protein data sources. , 2007, , .		1
63	Re-configurable VoIP interactive response. , 2008, , .		1
64	XML Profile for Distributed Real Time Systems. , 2008, , .		1
65	WAD Workflow System: Data-Centric Workflow System. , 2009, , .		1
66	Determining the Net Financial Risk for Decision Making in Business Interactions. , 2009, , .		1
67	A digital information ecosystem structure for regional climate change assessment and adaptation. , 2009, , .		1
68	Towards the use of semi-structured annotators for Automated Essay Grading. , 2010, , .		1
69	State of the Art of Community-Driven Software Engineering Ontology Evolution. , 2011, , .		1
70	Overview of a Media Convergence Centre (MC<sup>2</sup>). , 2008, , .		0
71	Quantifying the numeric and linguistic magnitude of perceived risk in E-Commerce Interactions for RDSS. , 2008, , .		0
72	Current status of biomedical ontologies: Developments in 2007. , 2008, , .		0

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73	Use of Protein Ontology to Enable Data Exchange for Complex Proteomic Experiments. , 2008, , .		0
74	Dynamic Cache Tuning Aids the Success of Telemedicine. , 2008, , .		0
75	Conceptual modeling of Knowledge Based Systems for digital ecosystems. , 2008, , .		0
76	Special Section on Engineering Semantic Agent Systems. Multiagent and Grid Systems, 2008, 4, 295-296.	0.9	0
77	A Methodology for Transactional Risk Assessment and Decision Making in e-Business Interactions. , 2009, , .		0
78	Determining Writing Genre: Towards a Rubric-based Approach to Automated Essay Grading. , 2011, , .		0
79	Polynomial Modeling in a Dynamic Environment based on a Particle Swarm Optimization. , 2012, , 23-38.		0
80	Detecting Events in Narrative Essays. , 2012, , .		0
81	Large-scale frequent stem pattern mining in RNA families. Journal of Theoretical Biology, 2018, 455, 131-139.	1.7	0
82	Tree Mining Application to Matching of Heterogeneous Knowledge Representations. , 2007, , .		0
83	Towards Quantifying the Possible Risk in e-commerce Interactions for RDSS. , 2007, , .		0