

# Abhishek Dubey

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113  
papers

1,090  
citations

15  
h-index

28  
g-index

146  
ext. papers

1,467  
ext. citations

2.6  
avg, IF

4.83  
L-index

#	Paper	IF	Citations
113	Efficient Autoscaling in the Cloud Using Predictive Models for Workload Forecasting <b>2011</b> ,		276
112	Providing privacy, safety, and security in IoT-based transactive energy systems using distributed ledgers <b>2017</b> ,		49
111	Introducing the new paradigm of Social Dispersed Computing: Applications, Technologies and Challenges. <i>Journal of Systems Architecture</i> , <b>2018</b> , 91, 83-102	5.5	36
110	VeriSolid: Correct-by-Design Smart Contracts for Ethereum. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 446-465	0.9	33
109	A component model for hard real-time systems: CCM with ARINC-653. <i>Software - Practice and Experience</i> , <b>2011</b> , 41, 1517-1550	2.5	32
108	RIAPS: Resilient Information Architecture Platform for Decentralized Smart Systems <b>2017</b> ,		29
107	Application of software health management techniques <b>2011</b> ,		20
106	PlaTIBART <b>2017</b> ,		18
105	DxNAT [Deep neural networks for explaining non-recurring traffic congestion <b>2017</b> ,		18
104	F6COM: A component model for resource-constrained and dynamic space-based computing environments <b>2013</b> ,		18
103	Model-based software health management for real-time systems <b>2011</b> ,		18
102	Achieving resilience in distributed software systems via self-reconfiguration. <i>Journal of Systems and Software</i> , <b>2016</b> , 122, 344-363	3.3	16
101	Distributed Real-Time Managed Systems: A Model-Driven Distributed Secure Information Architecture Platform for Managed Embedded Systems. <i>IEEE Software</i> , <b>2014</b> , 31, 62-69	1.5	16
100	A Capacity Planning Process for Performance Assurance of Component-based Distributed Systems <b>2011</b> ,		15
99	Real-Time and Predictive Analytics for Smart Public Transportation Decision Support System <b>2016</b> ,		15
98	TRANSAX: A Blockchain-Based Decentralized Forward-Trading Energy Exchanged for Transactive Microgrids <b>2018</b> ,		15
97	URMILA: Dynamically trading-off fog and edge resources for performance and mobility-aware IoT services. <i>Journal of Systems Architecture</i> , <b>2020</b> , 107, 101710	5.5	14

96	Middleware for Resource-Aware Deployment and Configuration of Fault-Tolerant Real-time Systems <b>2010</b> ,		14
95	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 9393-9404	8.9	14
94	<b>2016</b> ,		14
93	A game-theoretic approach for power systems defense against dynamic cyber-attacks. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2020</b> , 115, 105432	5.1	13
92	Development of a Controller Hardware-in-the-Loop Platform for Microgrid Distributed Control Applications <b>2018</b> ,		12
91	Incident analysis and prediction using clustering and Bayesian network <b>2017</b> ,		11
90	Time synchronization services for low-cost fog computing applications <b>2017</b> ,		11
89	On the design of communication and transaction anonymity in blockchain-based transactive microgrids <b>2017</b> ,		11
88	Consensus mechanisms and information security technologies. <i>Advances in Computers</i> , <b>2019</b> , 115, 181-209	2.9	10
87	CHARIOT: a domain specific language for extensible cyber-physical systems <b>2015</b> ,		10
86	Using temporal causal models to isolate failures in power system protection devices. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2015</b> , 18, 28-39	1.4	9
85	Implementation of a distributed microgrid controller on the Resilient Information Architecture Platform for Smart Systems (RIAPS) <b>2017</b> ,		9
84	Mechanisms for Integrated Feature Normalization and Remaining Useful Life Estimation Using LSTMs Applied to Hard-Disks <b>2019</b> ,		9
83	Distributed and Managed: Research Challenges and Opportunities of the Next Generation Cyber-Physical Systems <b>2014</b> ,		9
82	A Real-Time Component Framework: Experience with CCM and ARINC-653 <b>2010</b> ,		9
81	<b>2009</b> ,		9
80	Performance modeling of distributed multi-tier enterprise systems. <i>Performance Evaluation Review</i> , <b>2009</b> , 37, 9-11	0.4	9
79	Optimal detection of faulty traffic sensors used in route planning <b>2017</b> ,		9

78	<b>2016,</b>		8
77	Transactive energy demo with RIAPS platform <b>2017,</b>		8
76	Distributed diagnosis of complex systems using timed failure propagation graph models <b>2010,</b>		8
75	Towards a verifiable real-time, autonomic, fault mitigation framework for large scale real-time systems. <i>Innovations in Systems and Software Engineering</i> , <b>2007</b> , 3, 33-52	1.1	8
74	Cyber-physical simulation platform for security assessment of transactive energy systems <b>2019,</b>		7
73	A Rapid Testing Framework for a Mobile Cloud <b>2014,</b>		7
72	Model-based design for CPS with learning-enabled components <b>2019,</b>		7
71	On the Data-Driven Prediction of Arrival Times for Freight Trains on U.S. Railroads <b>2018,</b>		7
70	Resilience at the edge in cyber-physical systems <b>2017,</b>		6
69	DREMS ML: A wide spectrum architecture design language for distributed computing platforms. <i>Science of Computer Programming</i> , <b>2015</b> , 106, 3-29	1.1	6
68	CHARIOT. <i>ACM Transactions on Cyber-Physical Systems</i> , <b>2018</b> , 2, 1-37	2.3	6
67	Analyzing the Cascading Effect of Traffic Congestion Using LSTM Networks <b>2019,</b>		6
66	An Adaptive Interleaving Algorithm for Multi-Converter Systems <b>2018,</b>		6
65	Vulnerability analysis of power systems based on cyber-attack and defense models <b>2018,</b>		5
64	Device Access Abstractions for Resilient Information Architecture Platform for Smart Grid. <i>IEEE Embedded Systems Letters</i> , <b>2019</b> , 11, 34-37	1	5
63	Deliberative, search-based mitigation strategies for model-based software health management. <i>Innovations in Systems and Software Engineering</i> , <b>2013</b> , 9, 293-318	1.1	5
62	Unsupervised Mechanisms for Optimizing On-Time Performance of Fixed Schedule Transit Vehicles <b>2017,</b>		5
61	Short Paper: Towards Low-Cost Indoor Localization Using Edge Computing Resources <b>2017,</b>		5

60	Enabling Self-Management by Using Model-Based Design Space Exploration <b>2010,</b>		5
59	. <i>Computer</i> , <b>2020</b> , 53, 66-76	1.6	5
58	Demo Abstract: RIAPS [A Resilient Information Architecture Platform for Edge Computing <b>2016,</b>		5
57	Transit-hub: a smart public transportation decision support system with multi-timescale analytical services. <i>Cluster Computing</i> , <b>2019</b> , 22, 2239-2254	2.1	5
56	A Hardware-in-the-Loop Real-Time Testbed for Microgrid Hierarchical Control <b>2018,</b>		5
55	A Decentralized Approach for Real Time Anomaly Detection in Transportation Networks <b>2019,</b>		4
54	Large Scale Monitoring and Online Analysis in a Distributed Virtualized Environment <b>2011,</b>		4
53	Computation and Communication Evaluation of an Authentication Mechanism for Time-Triggered Networked Control Systems. <i>Sensors</i> , <b>2016</b> , 16,	3.8	4
52	SolidWorx: A Resilient and Trustworthy Transactive Platform for Smart and Connected Communities <b>2018,</b>		4
51	Distributed Microgrid Synchronization Strategy Using a Novel Information Architecture Platform <b>2018,</b>		4
50	An online decision-theoretic pipeline for responder dispatch <b>2019,</b>		3
49	Towards an architecture for evaluating and analyzing decentralized Fog applications <b>2017,</b>		3
48	DelayRadar: A multivariate predictive model for transit systems <b>2016,</b>		3
47	Enabling Strong Isolation for Distributed Real-Time Applications in Edge Computing Scenarios. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2019</b> , 34, 32-45	2.4	3
46	A simulation testbed for cascade analysis <b>2017,</b>		3
45	Establishing Secure Interactions across Distributed Applications in Satellite Clusters <b>2014,</b>		3
44	Towards a resilient deployment and configuration infrastructure for fractionated spacecraft. <i>ACM SIGBED Review</i> , <b>2013</b> , 10, 29-32	1.3	3
43	Dynamic Workflow Management and Monitoring Using DDS <b>2010,</b>		3

42	Model Predictive Analysis for Autonomic Workflow Management in Large-scale Scientific Computing Environments <b>2007</b> ,		3
41	CPS Design with Learning-Enabled Components <b>2019</b> ,		3
40	Route Planning Through Distributed Computing by Road Side Units. <i>IEEE Access</i> , <b>2020</b> , 8, 176134-176148,	3.5	3
39	Designing a decentralized fault-tolerant software framework for smart grids and its applications. <i>Journal of Systems Architecture</i> , <b>2020</b> , 109, 101759	5-5	3
38	Online monitoring and control of a cyber-physical manufacturing process under uncertainty. <i>Journal of Intelligent Manufacturing</i> , <b>2020</b> , 195, 1289	6-7	3
37	Resilient Information Architecture Platform for Smart Systems (RIAPS): Case Study for Distributed Apparent Power Control <b>2018</b> ,		3
36	A modeling framework to integrate exogenous tools for identifying critical components in power systems <b>2017</b> ,		2
35	Towards an Adaptive Multi-Modal Traffic Analytics Framework at the Edge <b>2019</b> ,		2
34	Short-Term Transit Decision Support System Using Multi-task Deep Neural Networks <b>2018</b> ,		2
33	Augmenting Learning Components for Safety in Resource Constrained Autonomous Robots <b>2019</b> ,		2
32	Diagnostics and prognostics using temporal causal models for cyber physical energy systems <b>2017</b> ,		2
31	DREMS-OS: An Operating System for Managed Distributed Real-Time Embedded Systems <b>2017</b> ,		2
30	Heuristics-based approach for identifying critical N k contingencies in power systems <b>2017</b> ,		2
29	Performance evaluation of smart systems under uncertainty <b>2017</b> ,		2
28	Analysis, verification, and management toolsuite for cyber-physical applications on time-varying networks <b>2014</b> ,		2
27	Integrated Monitoring and Control for Performance Management of Distributed Enterprise Systems <b>2010</b> ,		2
26	Towards demand-oriented flexible rerouting of public transit under uncertainty <b>2019</b> ,		2
25	<b>2021</b> ,		2

24	Data-Driven Optimization of Public Transit Schedule. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 265-284	0.9	2
23	Designing a Resilient Deployment and Reconfiguration Infrastructure for Remotely Managed Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 88-104	0.9	2
22	Fault-Adaptivity in Hard Real-Time Component-Based Software Systems. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 294-323	0.9	2
21	TRANSIT HUB <b>2016</b> , 597-612		2
20	Poster Abstract: A Distributed and Resilient Platform for City-Scale Smart Systems <b>2016</b> ,		2
19	Real-Time Control of Cyber-Physical Manufacturing Process Under Uncertainty <b>2018</b> ,		2
18	Incident management and analysis dashboard for fire departments <b>2019</b> ,		1
17	<b>2019</b> ,		1
16	SpeedPro: A Predictive Multi-Model Approach for Urban Traffic Speed Estimation <b>2017</b> ,		1
15	A resilient and secure software platform and architecture for distributed spacecraft <b>2014</b> ,		1
14	Using temporal causal models to isolate failures in Power System protection devices <b>2014</b> ,		1
13	Generic modeling and analysis framework for shipboard system design <b>2013</b> ,		1
12	Architecting Health Management into Software Component Assemblies: Lessons Learned from the ARINC-653 Component Mode <b>2012</b> ,		1
11	LQCD workflow execution framework: Models, provenance and fault-tolerance. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 219, 072047	0.3	1
10	Towards A Model-Based Autonomic Reliability Framework for Computing Clusters <b>2008</b> ,		1
9	User-centric Distributed Route Planning in Smart Cities based on Multi-objective Optimization <b>2021</b> ,		1
8	The Role of Blockchains in Multi-Stakeholder Transactive Energy Systems. <i>Frontiers in Blockchain</i> , <b>2020</b> , 3,	3	1
7	Hierarchical planning for resource allocation in emergency response systems <b>2021</b> ,		1

6	Testing at scale of IoT blockchain applications. <i>Advances in Computers</i> , <b>2019</b> , 115, 155-179	2.9	1
5	Safe and Private Forward-trading Platform for Transactive Microgrids. <i>ACM Transactions on Cyber-Physical Systems</i> , <b>2021</b> , 5, 1-29	2.3	1
4	Diagnosis in Cyber-Physical Systems with Fault Protection Assemblies <b>2018</b> , 201-225		0
3	Moving target defense for the security and resilience of mixed time and event triggered cyber-physical systems. <i>Journal of Systems Architecture</i> , <b>2022</b> , 125, 102420	5.5	0
2	A Review of Incident Prediction, Resource Allocation, and Dispatch Models for Emergency Management.. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 165, 106501	6.1	0
1	Autonomic Healing of Model-Based Systems. <i>Journal of Aerospace Computing, Information, and Communication</i> , <b>2011</b> , 8, 87-99		