Neeraj Suri

List of Publications by Year
in descending order

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170	1,666	687363	552781
papers	citations	13	26
		h-index	g-index

174	174	174	1196
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Named Data Networking: A survey. Computer Science Review, 2016, 19, 15-55.	15.3	205
2	Quantitative Reasoning about Cloud Security Using Service Level Agreements. IEEE Transactions on Cloud Computing, 2017, 5, 457-471.	4.4	48
3	EPIC: profiling the propagation and effect of data errors in software. IEEE Transactions on Computers, 2004, 53, 512-530.	3.4	45
4	Security as a Service Using an SLA-Based Approach via SPECS. , 2013, , .		43
5	Run Time Application Repartitioning in Dynamic Mobile Cloud Environments. IEEE Transactions on Cloud Computing, 2016, 4, 336-348.	4.4	40
6	Leveraging the Potential of Cloud Security Service-Level Agreements through Standards. IEEE Cloud Computing, 2015, 2, 32-40.	3.9	39
7	An empirical study of injected versus actual interface errors. , 2014, , .		33
8	On-Line Diagnosis and Recovery: On the Choice and Impact of Tuning Parameters. IEEE Transactions on Dependable and Secure Computing, 2007, 4, 295-312.	5.4	32
9	Benchmarking cloud security level agreements using quantitative policy trees. , 2012, , .		31
10	Using Underutilized CPU Resources to Enhance Its Reliability. IEEE Transactions on Dependable and Secure Computing, 2010, 7, 94-109.	5.4	30
11	AHP-Based Quantitative Approach for Assessing and Comparing Cloud Security. , 2014, , .		30
12	On the Selection of Error Model(s) for OS Robustness Evaluation. , 2007, , .		29
13	PoWerStore. , 2013, , .		27
14	The impact of fault models on software robustness evaluations. , 2011, , .		25
15	Novel efficient techniques for real-time cloud security assessment. Computers and Security, 2016, 62, 1-18.	6.0	25
16	TRCCIT: Tunable reliability with Congestion Control for Information Transport in Wireless Sensor Networks. , 2010, , .		22
17	simFI: From single to simultaneous software fault injections. , 2013, , .		22
18	MWM: A Map-based World Model for Wireless Sensor Networks. , 2008, , .		21

#	Article	IF	Citations
19	Quantitative assessment of software vulnerabilities based on economic-driven security metrics. , 2013, , .		20
20	MemFuzz: Using Memory Accesses to Guide Fuzzing. , 2019, , .		20
21	Increasing the Resilience of Critical SCADA Systems Using Peer-to-Peer Overlays. Lecture Notes in Computer Science, 2010, , 161-178.	1.3	19
22	DKM: Distributed k-connectivity maintenance in Wireless Sensor Networks. , 2012, , .		18
23	No PAIN, No Gain? The Utility of PArallel Fault INjections. , 2015, , .		18
24	A novel approach to manage cloud security SLA incidents. Future Generation Computer Systems, 2017, 72, 193-205.	7.5	17
25	On Modeling the Reliability of Data Transport in Wireless Sensor Networks. Parallel, Distributed and Network-based Processing, Proceedings of the Euromicro Workshop on, 2007, , .	0.0	16
26	An adaptive and composite spatio-temporal data compression approach for wireless sensor networks. , 2011, , .		16
27	On Choosing Server- or Client-Side Solutions for BFT. ACM Computing Surveys, 2016, 48, 1-30.	23.0	16
28	Generic Information Transport for Wireless Sensor Networks. , 2010, , .		15
29	Reordering for Better Compressibility: Efficient Spatial Sampling in Wireless Sensor Networks. , 2010, , .		15
30	Efficient predictive monitoring of wireless sensor networks. International Journal of Autonomous and Adaptive Communications Systems, 2012, 5, 233.	0.3	15
31	Instrumenting AUTOSAR for dependability assessment: A guidance framework. , 2012, , .		14
32	Abortable Fork-Linearizable Storage. Lecture Notes in Computer Science, 2009, , 255-269.	1.3	14
33	One-step Consensus with Zero-Degradation. , 0, , .		13
34	Efficient model checking of fault-tolerant distributed protocols. , 2011, , .		13
35	SLA-Based Service Selection for Multi-Cloud Environments. , 2017, , .		13
36	Analyzing the Effects of Bugs on Software Interfaces. IEEE Transactions on Software Engineering, 2020, 46, 280-301.	5.6	13

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37	Model-Based Development of Distributed Embedded Real-Time Systems with the DECOS Tool-Chain. , 2007, , .		12
38	Balanced spatio-temporal compressive sensing for multi-hop wireless sensor networks. , 2012, , .		12
39	Privacy-by-design based on quantitative threat modeling. , 2012, , .		12
40	Detecting and Mitigating P2P Eclipse Attacks. , 2015, , .		12
41	Reliable Memory Efficient Name Forwarding in Named Data Networking. , 2016, , .		11
42	PCaaD: Towards automated determination and exploitation of industrial systems. Computers and Security, 2021, 110, 102424.	6.0	11
43	A Tunable Add-On Diagnostic Protocol for Time-Triggered Systems. , 2007, , .		10
44	A comparative study of data transport protocols in wireless sensor networks. , 2008, , .		10
45	Eventually linearizable shared objects. , 2010, , .		10
46	ASample: Adaptive Spatial Sampling in Wireless Sensor Networks. , 2010, , .		10
47	Scrooge: Reducing the costs of fast Byzantine replication in presence of unresponsive replicas. , 2010, , .		10
48	Application-Level Diagnostic and Membership Protocols for Generic Time-Triggered Systems. IEEE Transactions on Dependable and Secure Computing, 2011, 8, 177-193.	5.4	10
49	Robust QoS-aware communication in the smart distribution grid. Peer-to-Peer Networking and Applications, 2017, 10, 193-207.	3.9	10
50	SeReCP: A Secure and Reliable Communication Platform for the Smart Grid. , 2017, , .		10
51	A Security Architecture for Railway Signalling. Lecture Notes in Computer Science, 2017, , 320-328.	1.3	10
52	Challenges and Approaches in Securing Safety-Relevant Railway Signalling. , 2017, , .		10
53	Security Requirements Engineering in Safety-Critical Railway Signalling Networks. Security and Communication Networks, 2019, 2019, 1-14.	1.5	10
54	Towards Benchmarking of P2P Technologies from a SCADA Systems Protection Perspective. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 400-414.	0.3	10

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55	FT-PPTC: An Efficient and Fault-Tolerant Commit Protocol for Mobile Environments. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2006, , .	0.0	9
56	INcreasing Security and Protection through Infrastructure REsilience: The INSPIRE Project. Lecture Notes in Computer Science, 2009, , 109-118.	1.3	9
57	gMAP: Efficient construction of global maps for mobility-assisted wireless sensor networks. , 2009, , .		9
58	Trust & security RTD in the internet of things. , 2012, , .		9
59	Predictive vulnerability scoring in the context of insufficient information availability. , 2013, , .		9
60	Guaranteeing Proper-Temporal-Embedding safety rules in wireless CPS: A hybrid formal modeling approach. , 2013, , .		9
61	Mitigating Eclipse attacks in Peer-To-Peer networks. , 2014, , .		9
62	A Lease Based Hybrid Design Pattern for Proper-Temporal-Embedding of Wireless CPS Interlocking. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2630-2642.	5.6	9
63	Securing the cloud-assisted smart grid. International Journal of Critical Infrastructure Protection, 2018, 23, 100-111.	4.6	9
64	MPTCP-H: A DDoS attack resilient transport protocol to secure wide area measurement systems. International Journal of Critical Infrastructure Protection, 2019, 25, 84-101.	4.6	9
65	An optimization based design for integrated dependable real-time embedded systems. Design Automation for Embedded Systems, 2009, 13, 245-285.	1.0	8
66	LEHP: Localized energy hole profiling in Wireless Sensor Networks. , 2010, , .		8
67	Supporting domain-specific state space reductions through local partial-order reduction. , 2011, , .		8
68	On the design of perturbation-resilient atomic commit protocols for mobile transactions. ACM Transactions on Computer Systems, 2011, 29, 1-36.	0.8	8
69	Assessing the security of internet-connected critical infrastructures. Security and Communication Networks, 2014, 7, 2713-2725.	1.5	8
70	Mitigating Timing Error Propagation in Mixed-Criticality Automotive Systems. , 2015, , .		8
71	C'mon. , 2017, , .		8
72	A software integration approach for designing and assessing dependable embedded systems. Journal of Systems and Software, 2010, 83, 1780-1800.	4.5	7

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73	ParTAC: A Partition-Tolerant Atomic Commit Protocol for MANETs. , 2010, , .		7
74	On the Effective Use of Fault Injection for the Assessment of AUTOSAR Safety Mechanisms. , 2015, , .		7
75	GRINDER: On Reusability of Fault Injection Tools. , 2015, , .		7
76	Identifying and Utilizing Dependencies Across Cloud Security Services. , 2016, , .		7
77	Quantifiably Trusting the Cloud: Putting Metrics to Work. IEEE Security and Privacy, 2016, 14, 73-77.	1.2	7
78	Improving Robustness Testing of COTS OS Extensions. Lecture Notes in Computer Science, 2006, , 120-139.	1.3	7
79	Security Issues in Cloud Federations. , 2012, , 176-194.		7
80	On Efficient Models for Model Checking Message-Passing Distributed Protocols. Lecture Notes in Computer Science, 2010, , 216-223.	1.3	7
81	Profiling the operational behavior of OS device drivers. Empirical Software Engineering, 2010, 15, 380-422.	3.9	6
82	Leveraging the next-generation power grid: Data sharing and associated partnerships. , 2010, , .		6
83	Reliable congestion-aware information transport in wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2011, 7, 135.	0.4	6
84	Robust and real-time communication on heterogeneous networks for smart distribution grid. , 2014, , .		6
85	The Impact of Hypervisor Scheduling on Compromising Virtualized Environments. , 2015, , .		6
86	SENTRY: A Novel Approach for Mitigating Application Layer DDoS Threats. , 2016, , .		6
87	Towards DDoS Attack Resilient Wide Area Monitoring Systems. , 2017, , .		6
88	A Framework for Ranking Cloud Security Services. , 2017, , .		6
89	TrEKer: Tracing error propagation in operating system kernels. , 2017, , .		6
90	Threat Modeling and Analysis for the Cloud Ecosystem. , 2018, , .		6

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91	Assessing the state and improving the art of parallel testing for C. , 2019, , .		6
92	HP: Hybrid Paxos for WANs. , 2010, , .		5
93	TOM: Topology oriented maintenance in sparse Wireless Sensor Networks. , 2011, , .		5
94	Practical Use of Formal Verification for Safety Critical Cyber-Physical Systems: A Case Study. , 2014, , .		5
95	Assessing Privacy Capabilities of Cloud Service Providers. IEEE Latin America Transactions, 2015, 13, 3634-3641.	1.6	5
96	IPA: Error Propagation Analysis of Multi-Threaded Programs Using Likely Invariants. , 2017, , .		5
97	deQAM: A Dependency Based Indirect Monitoring Approach for Cloud Services. , 2017, , .		5
98	Towards a Framework for Assessing the Feasibility of Side-channel Attacks in Virtualized Environments. , 2014, , .		5
99	The complexity of robust atomic storage. , 2011, , .		4
100	Protection of SCADA Communication Channels. Lecture Notes in Computer Science, 2012, , 177-196.	1.3	4
101	Susceptibility Analysis of Structured P2P Systems to Localized Eclipse Attacks. , 2012, , .		4
102	Trading transport timeliness and reliability for efficiency in wireless sensor networks. , 2013, , .		4
103	PASS: An Address Space Slicing Framework for P2P Eclipse Attack Mitigation. , 2015, , .		4
104	P2P routing table poisoning: A quorum-based sanitizing approach. Computers and Security, 2017, 65, 283-299.	6.0	4
105	Quick verification of concurrent programs by iteratively relaxed scheduling. , 2017, , .		4
106	FastFI: Accelerating Software Fault Injections. , 2018, , .		4
107	Threat Modeling the Cloud: An Ontology Based Approach. Lecture Notes in Computer Science, 2019, , 61-72.	1.3	4
108	Execution Path Profiling for OS Device Drivers: Viability and Methodology. Lecture Notes in Computer Science, 2008, , 90-109.	1.3	4

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109	MPM: Map Based Predictive Monitoring for Wireless Sensor Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 79-95.	0.3	4
110	On the Time-Complexity of Robust and Amnesic Storage. Lecture Notes in Computer Science, 2008, , 197-216.	1.3	4
111	Coral: Reliable and low-latency P2P convergecast for critical sensor data collection. , 2013, , .		3
112	Information quality aware co-design of sampling and transport in wireless sensor networks. , 2013, , .		3
113	Event Pattern Discovery on IDS Traces of Cloud Services. , 2014, , .		3
114	Adaptive Hybrid Compression for Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-36.	3.6	3
115	Trust Validation of Cloud IaaS: A Customer-centric Approach. , 2016, , .		3
116	Practical Formal Verification for Model Based Development of Cyber-Physical Systems. , 2016, , .		3
117	Exploring the Relationship Between Dimensionality Reduction and Private Data Release. , 2018, , .		3
118	Towards a Framework for Benchmarking Privacy-ABC Technologies. IFIP Advances in Information and Communication Technology, 2014, , 197-204.	0.7	3
119	Exploring Delay-Aware Transactions in Heterogeneous Mobile Environments. Journal of Software, 2009, 4, .	0.6	3
120	Role-Based Symmetry Reduction of Fault-Tolerant Distributed Protocols with Language Support. Lecture Notes in Computer Science, 2009, , 147-166.	1.3	3
121	Extracting Safe Thread Schedules from Incomplete Model Checking Results. Lecture Notes in Computer Science, 2019, , 153-171.	1.3	3
122	Low-latency access to robust amnesic storage. , 2008, , .		2
123	Reducing the costs of large-scale BFT replication. , 2008, , .		2
124	Robustness Evaluation of Operating Systems. , 2008, , 349-375.		2
125	Increasing security and protection of SCADA systems through infrastructure resilience. International Journal of System of Systems Engineering, 2009, 1, 401.	0.5	2
126	Fork-consistent constructions from registers. , 2011, , .		2

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127	Efficient Verification of Distributed Protocols Using Stateful Model Checking. , 2013, , .		2
128	Robust Compressive Data Gathering in Wireless Sensor Networks with Linear Topology. , 2014, , .		2
129	Malicious peers eviction for P2P overlays. , 2016, , .		2
130	AttackDive: Diving Deep into the Cloud Ecosystem to Explore Attack Surfaces. , 2017, , .		2
131	Safety Verification Utilizing Model-based Development for Safety Critical Cyber-Physical Systems. Journal of Information Processing, 2017, 25, 797-810.	0.4	2
132	On the Detection of Side-Channel Attacks. , 2018, , .		2
133	A Detection Mechanism for Internal Attacks on Pull-Based P2P Streaming Systems. , 2018, , .		2
134	How to Fillet a Penguin: Runtime Data Driven Partitioning of Linux Code. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 945-958.	5.4	2
135	Proofs of Writing for Robust Storage. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2547-2566.	5.6	2
136	Designing Efficient Fail-Safe Multitolerant Systems. Lecture Notes in Computer Science, 2005, , 428-442.	1.3	2
137	User-Centric Security Assessment of Software Configurations: A Case Study. Lecture Notes in Computer Science, 2014, , 196-212.	1.3	2
138	INDEXYS, a Logical Step beyond GENESYS. Lecture Notes in Computer Science, 2010, , 431-451.	1.3	2
139	Delay-Aware Mobile Transactions. Lecture Notes in Computer Science, 2008, , 280-291.	1.3	2
140	Technical Implementation and Feasibility. , 2015, , 255-317.		2
141	Failure Diagnosis for Cluster Systems using Partial Correlations. , 2021, , .		2
142	Data-Based Agreement for Inter-vehicle Coordination. , 2010, , .		1
143	Assessing the comparative effectiveness of map construction protocols in wireless sensor networks. , 2011, , .		1
144	GMTC: A Generalized Commit Approach for Hybrid Mobile Environments. IEEE Transactions on Mobile Computing, 2013, 12, 2399-2411.	5.8	1

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145	WiP abstract: A framework on profiling cross-domain noise propagation in control CPS. , 2014, , .		1
146	FTDE: Distributed Fault Tolerance for WSN Data Collection and Compression Schemes. , 2015, , .		1
147	Flashlight. , 2018, , .		1
148	Monitoring Path Discovery for Supporting Indirect Monitoring of Cloud Services. , 2018, , .		1
149	Map-based Design for Autonomic Wireless Sensor Networks. , 2009, , 309-326.		1
150	Efficient Robust Storage Using Secret Tokens. Lecture Notes in Computer Science, 2009, , 269-283.	1.3	1
151	Brief Announcement: MP-State: State-Aware Software Model Checking of Message-Passing Systems. Lecture Notes in Computer Science, 2012, , 183-186.	1.3	1
152	SecLA-Based Negotiation and Brokering of Cloud Resources. Communications in Computer and Information Science, 2014, , 1-18.	0.5	1
153	Efficient Verification of Program Fragments: Eager POR. Lecture Notes in Computer Science, 2016, , 375-391.	1.3	1
154	The need for a generalized compositional framework. , 0, , .		0
155	Aiding Modular Design and Verification of Safety-Critical Time-Triggered Systems by Use of Executable Formal Specifications. , 2008, , .		0
156	Message from the DCCS program chair. , 2008, , .		0
157	On Equivalence Partitioning of Code Paths inside OS Kernel Components. , 2009, , .		0
158	Building a Long Term Strategy for International Collaboration in Trustworthy ICT: Security, Privacy and Trust in Global Networks and Services. , 2011, , .		0
159	Sampling and transport co-design in Wireless Sensor Networks. , 2013, , .		0
160	Agile sink selection in wireless sensor networks. , 2014, , .		0
161	Efficient Agile Sink Selection in Wireless Sensor Networks Based on Compressed Sensing. , 2014, , .		0
162	PBMC: Symbolic Slicing for the Verification of Concurrent Programs. Lecture Notes in Computer Science, 2015, , 344-360.	1.3	0

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163	InfoLeak: Scheduling-Based Information Leakage. , 2018, , .		0
164	A Composite Malicious Peer Eviction Mechanism for Super-P2P Systems. , 2018, , .		0
165	Whetstone: Reliable Monitoring of Cloud Services. , 2018, , .		0
166	Cross-Domain Noise Impact Evaluation for Black Box Two-Level Control CPS. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-25.	2.5	0
167	A Pre-Injection Analysis for Identifying Fault-Injection Tests for Protocol Validation. Journal of Software, 2010, 5, .	0.6	0
168	Protecting Cloud-Based CIs: Covert Channel Vulnerabilities at the Resource Level. Lecture Notes in Computer Science, 2019, , 27-38.	1.3	0
169	The Fail-Heterogeneous Architectural Model. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
170	On the Latency Efficiency of Message-Parsimonious Asynchronous Atomic Broadcast. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0