

# Neeraj Suri

## List of Publications by Year in descending order

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170  
papers

1,666  
citations

687363

13  
h-index

552781

26  
g-index

174  
all docs

174  
docs citations

174  
times ranked

1196  
citing authors

#	ARTICLE	IF	CITATIONS
1	PCaad: Towards automated determination and exploitation of industrial systems. Computers and Security, 2021, 110, 102424.	6.0	11
2	Failure Diagnosis for Cluster Systems using Partial Correlations. , 2021, , .		2
3	Analyzing the Effects of Bugs on Software Interfaces. IEEE Transactions on Software Engineering, 2020, 46, 280-301.	5.6	13
4	Security Requirements Engineering in Safety-Critical Railway Signalling Networks. Security and Communication Networks, 2019, 2019, 1-14.	1.5	10
5	Proofs of Writing for Robust Storage. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2547-2566.	5.6	2
6	MemFuzz: Using Memory Accesses to Guide Fuzzing. , 2019, , .		20
7	Assessing the state and improving the art of parallel testing for C. , 2019, , .		6
8	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
9	Threat Modeling the Cloud: An Ontology Based Approach. Lecture Notes in Computer Science, 2019, , 61-72.	1.3	4
10	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
11	Protecting Cloud-Based CIs: Covert Channel Vulnerabilities at the Resource Level. Lecture Notes in Computer Science, 2019, , 27-38.	1.3	0
12	Extracting Safe Thread Schedules from Incomplete Model Checking Results. Lecture Notes in Computer Science, 2019, , 153-171.	1.3	3
13	FastFI: Accelerating Software Fault Injections. , 2018, , .		4
14	Exploring the Relationship Between Dimensionality Reduction and Private Data Release. , 2018, , .		3
15	On the Detection of Side-Channel Attacks. , 2018, , .		2
16	Flashlight. , 2018, , .		1
17	InfoLeak: Scheduling-Based Information Leakage. , 2018, , .		0
18	A Composite Malicious Peer Eviction Mechanism for Super-P2P Systems. , 2018, , .		0

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19	A Detection Mechanism for Internal Attacks on Pull-Based P2P Streaming Systems. , 2018, , .		2
20	Securing the cloud-assisted smart grid. International Journal of Critical Infrastructure Protection, 2018, 23, 100-111.	4.6	9
21	Threat Modeling and Analysis for the Cloud Ecosystem. , 2018, , .		6
22	Monitoring Path Discovery for Supporting Indirect Monitoring of Cloud Services. , 2018, , .		1
23	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
24	Whetstone: Reliable Monitoring of Cloud Services. , 2018, , .		0
25	Robust QoS-aware communication in the smart distribution grid. Peer-to-Peer Networking and Applications, 2017, 10, 193-207.	3.9	10
26	Quantitative Reasoning about Cloud Security Using Service Level Agreements. IEEE Transactions on Cloud Computing, 2017, 5, 457-471.	4.4	48
27	A novel approach to manage cloud security SLA incidents. Future Generation Computer Systems, 2017, 72, 193-205.	7.5	17
28	SeReCP: A Secure and Reliable Communication Platform for the Smart Grid. , 2017, , .		10
29	IPA: Error Propagation Analysis of Multi-Threaded Programs Using Likely Invariants. , 2017, , .		5
30	P2P routing table poisoning: A quorum-based sanitizing approach. Computers and Security, 2017, 65, 283-299.	6.0	4
31	Towards DDoS Attack Resilient Wide Area Monitoring Systems. , 2017, , .		6
32	AttackDive: Diving Deep into the Cloud Ecosystem to Explore Attack Surfaces. , 2017, , .		2
33	A Security Architecture for Railway Signalling. Lecture Notes in Computer Science, 2017, , 320-328.	1.3	10
34	A Framework for Ranking Cloud Security Services. , 2017, , .		6
35	TrEKer: Tracing error propagation in operating system kernels. , 2017, , .		6
36	C'mon. , 2017, , .		8

#	ARTICLE	IF	CITATIONS
37	Challenges and Approaches in Securing Safety-Relevant Railway Signalling. , 2017, , .		10
38	SLA-Based Service Selection for Multi-Cloud Environments. , 2017, , .		13
39	Safety Verification Utilizing Model-based Development for Safety Critical Cyber-Physical Systems. Journal of Information Processing, 2017, 25, 797-810.	0.4	2
40	deQAM: A Dependency Based Indirect Monitoring Approach for Cloud Services. , 2017, , .		5
41	Quick verification of concurrent programs by iteratively relaxed scheduling. , 2017, , .		4
42	Run Time Application Repartitioning in Dynamic Mobile Cloud Environments. IEEE Transactions on Cloud Computing, 2016, 4, 336-348.	4.4	40
43	Identifying and Utilizing Dependencies Across Cloud Security Services. , 2016, , .		7
44	Trust Validation of Cloud IaaS: A Customer-centric Approach. , 2016, , .		3
45	SENTRY: A Novel Approach for Mitigating Application Layer DDoS Threats. , 2016, , .		6
46	Malicious peers eviction for P2P overlays. , 2016, , .		2
47	On Choosing Server- or Client-Side Solutions for BFT. ACM Computing Surveys, 2016, 48, 1-30.	23.0	16
48	Reliable Memory Efficient Name Forwarding in Named Data Networking. , 2016, , .		11
49	Practical Formal Verification for Model Based Development of Cyber-Physical Systems. , 2016, , .		3
50	Quantifiably Trusting the Cloud: Putting Metrics to Work. IEEE Security and Privacy, 2016, 14, 73-77.	1.2	7
51	Novel efficient techniques for real-time cloud security assessment. Computers and Security, 2016, 62, 1-18.	6.0	25
52	Named Data Networking: A survey. Computer Science Review, 2016, 19, 15-55.	15.3	205
53	Efficient Verification of Program Fragments: Eager POR. Lecture Notes in Computer Science, 2016, , 375-391.	1.3	1
54	On the Effective Use of Fault Injection for the Assessment of AUTOSAR Safety Mechanisms. , 2015, , .		7

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55	PASS: An Address Space Slicing Framework for P2P Eclipse Attack Mitigation. , 2015, , .		4
56	Detecting and Mitigating P2P Eclipse Attacks. , 2015, , .		12
57	No PAIN, No Gain? The Utility of PARallel Fault INjections. , 2015, , .		18
58	The Impact of Hypervisor Scheduling on Compromising Virtualized Environments. , 2015, , .		6
59	FTDE: Distributed Fault Tolerance for WSN Data Collection and Compression Schemes. , 2015, , .		1
60	Assessing Privacy Capabilities of Cloud Service Providers. IEEE Latin America Transactions, 2015, 13, 3634-3641.	1.6	5
61	Adaptive Hybrid Compression for Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2015, 11, 1-36.	3.6	3
62	GRINDER: On Reusability of Fault Injection Tools. , 2015, , .		7
63	Mitigating Timing Error Propagation in Mixed-Criticality Automotive Systems. , 2015, , .		8
64	Leveraging the Potential of Cloud Security Service-Level Agreements through Standards. IEEE Cloud Computing, 2015, 2, 32-40.	3.9	39
65	PBMC: Symbolic Slicing for the Verification of Concurrent Programs. Lecture Notes in Computer Science, 2015, , 344-360.	1.3	0
66	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
67	Technical Implementation and Feasibility. , 2015, , 255-317.		2
68	Robust and real-time communication on heterogeneous networks for smart distribution grid. , 2014, , .		6
69	Event Pattern Discovery on IDS Traces of Cloud Services. , 2014, , .		3
70	Agile sink selection in wireless sensor networks. , 2014, , .		0
71	Mitigating Eclipse attacks in Peer-To-Peer networks. , 2014, , .		9
72	Practical Use of Formal Verification for Safety Critical Cyber-Physical Systems: A Case Study. , 2014, , .		5

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73	An empirical study of injected versus actual interface errors. , 2014, , .		33
74	AHP-Based Quantitative Approach for Assessing and Comparing Cloud Security. , 2014, , .		30
75	WiP abstract: A framework on profiling cross-domain noise propagation in control CPS. , 2014, , .		1
76	Assessing the security of internet-connected critical infrastructures. Security and Communication Networks, 2014, 7, 2713-2725.	1.5	8
77	Efficient Agile Sink Selection in Wireless Sensor Networks Based on Compressed Sensing. , 2014, , .		0
78	Robust Compressive Data Gathering in Wireless Sensor Networks with Linear Topology. , 2014, , .		2
79	User-Centric Security Assessment of Software Configurations: A Case Study. Lecture Notes in Computer Science, 2014, , 196-212.	1.3	2
80	Towards a Framework for Benchmarking Privacy-ABC Technologies. IFIP Advances in Information and Communication Technology, 2014, , 197-204.	0.7	3
81	Towards a Framework for Assessing the Feasibility of Side-channel Attacks in Virtualized Environments. , 2014, , .		5
82	SecLA-Based Negotiation and Brokering of Cloud Resources. Communications in Computer and Information Science, 2014, , 1-18.	0.5	1
83	Security as a Service Using an SLA-Based Approach via SPECS. , 2013, , .		43
84	simFI: From single to simultaneous software fault injections. , 2013, , .		22
85	Quantitative assessment of software vulnerabilities based on economic-driven security metrics. , 2013, , .		20
86	Coral: Reliable and low-latency P2P convergecast for critical sensor data collection. , 2013, , .		3
87	Predictive vulnerability scoring in the context of insufficient information availability. , 2013, , .		9
88	Information quality aware co-design of sampling and transport in wireless sensor networks. , 2013, , .		3
89	PoWerStore. , 2013, , .		27
90	Sampling and transport co-design in Wireless Sensor Networks. , 2013, , .		0

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91	GMTC: A Generalized Commit Approach for Hybrid Mobile Environments. IEEE Transactions on Mobile Computing, 2013, 12, 2399-2411.	5.8	1
92	Efficient Verification of Distributed Protocols Using Stateful Model Checking. , 2013, , .		2
93	Trading transport timeliness and reliability for efficiency in wireless sensor networks. , 2013, , .		4
94	Guaranteeing Proper-Temporal-Embedding safety rules in wireless CPS: A hybrid formal modeling approach. , 2013, , .		9
95	Instrumenting AUTOSAR for dependability assessment: A guidance framework. , 2012, , .		14
96	Efficient predictive monitoring of wireless sensor networks. International Journal of Autonomous and Adaptive Communications Systems, 2012, 5, 233.	0.3	15
97	Balanced spatio-temporal compressive sensing for multi-hop wireless sensor networks. , 2012, , .		12
98	Protection of SCADA Communication Channels. Lecture Notes in Computer Science, 2012, , 177-196.	1.3	4
99	Susceptibility Analysis of Structured P2P Systems to Localized Eclipse Attacks. , 2012, , .		4
100	DKM: Distributed k-connectivity maintenance in Wireless Sensor Networks. , 2012, , .		18
101	Privacy-by-design based on quantitative threat modeling. , 2012, , .		12
102	Benchmarking cloud security level agreements using quantitative policy trees. , 2012, , .		31
103	Trust & security RTD in the internet of things. , 2012, , .		9
104	Security Issues in Cloud Federations. , 2012, , 176-194.		7
105	Brief Announcement: MP-State: State-Aware Software Model Checking of Message-Passing Systems. Lecture Notes in Computer Science, 2012, , 183-186.	1.3	1
106	An adaptive and composite spatio-temporal data compression approach for wireless sensor networks. , 2011, , .		16
107	Building a Long Term Strategy for International Collaboration in Trustworthy ICT: Security, Privacy and Trust in Global Networks and Services. , 2011, , .		0
108	Supporting domain-specific state space reductions through local partial-order reduction. , 2011, , .		8

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109	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
110	The complexity of robust atomic storage. , 2011, , .		4
111	TOM: Topology oriented maintenance in sparse Wireless Sensor Networks. , 2011, , .		5
112	The impact of fault models on software robustness evaluations. , 2011, , .		25
113	Reliable congestion-aware information transport in wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2011, 7, 135.	0.4	6
114	Fork-consistent constructions from registers. , 2011, , .		2
115	Efficient model checking of fault-tolerant distributed protocols. , 2011, , .		13
116	Assessing the comparative effectiveness of map construction protocols in wireless sensor networks. , 2011, , .		1
117	On the design of perturbation-resilient atomic commit protocols for mobile transactions. ACM Transactions on Computer Systems, 2011, 29, 1-36.	0.8	8
118	TRCCIT: Tunable reliability with Congestion Control for Information Transport in Wireless Sensor Networks. , 2010, , .		22
119	A software integration approach for designing and assessing dependable embedded systems. Journal of Systems and Software, 2010, 83, 1780-1800.	4.5	7
120	Profiling the operational behavior of OS device drivers. Empirical Software Engineering, 2010, 15, 380-422.	3.9	6
121	Using Underutilized CPU Resources to Enhance Its Reliability. IEEE Transactions on Dependable and Secure Computing, 2010, 7, 94-109.	5.4	30
122	Generic Information Transport for Wireless Sensor Networks. , 2010, , .		15
123	HP: Hybrid Paxos for WANs. , 2010, , .		5
124	Data-Based Agreement for Inter-vehicle Coordination. , 2010, , .		1
125	Eventually linearizable shared objects. , 2010, , .		10
126	ASample: Adaptive Spatial Sampling in Wireless Sensor Networks. , 2010, , .		10



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127	Scrooge: Reducing the costs of fast Byzantine replication in presence of unresponsive replicas. , 2010, , .		10
128	LEHP: Localized energy hole profiling in Wireless Sensor Networks. , 2010, , .		8
129	Leveraging the next-generation power grid: Data sharing and associated partnerships. , 2010, , .		6
130	Reordering for Better Compressibility: Efficient Spatial Sampling in Wireless Sensor Networks. , 2010, , .		15
131	ParTAC: A Partition-Tolerant Atomic Commit Protocol for MANETs. , 2010, , .		7
132	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
133	Increasing the Resilience of Critical SCADA Systems Using Peer-to-Peer Overlays. Lecture Notes in Computer Science, 2010, , 161-178.	1.3	19
134	INDEXYS, a Logical Step beyond GENESYS. Lecture Notes in Computer Science, 2010, , 431-451.	1.3	2
135	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
136	On Efficient Models for Model Checking Message-Passing Distributed Protocols. Lecture Notes in Computer Science, 2010, , 216-223.	1.3	7
137	A Pre-Injection Analysis for Identifying Fault-Injection Tests for Protocol Validation. Journal of Software, 2010, 5, .	0.6	0
138	INcreasing Security and Protection through Infrastructure REsilience: The INSPIRE Project. Lecture Notes in Computer Science, 2009, , 109-118.	1.3	9
139	An optimization based design for integrated dependable real-time embedded systems. Design Automation for Embedded Systems, 2009, 13, 245-285.	1.0	8
140	gMAP: Efficient construction of global maps for mobility-assisted wireless sensor networks. , 2009, , .		9
141	On Equivalence Partitioning of Code Paths inside OS Kernel Components. , 2009, , .		0
142	Increasing security and protection of SCADA systems through infrastructure resilience. International Journal of System of Systems Engineering, 2009, 1, 401.	0.5	2
143	Map-based Design for Autonomic Wireless Sensor Networks. , 2009, , 309-326.		1
144	Abortable Fork-Linearizable Storage. Lecture Notes in Computer Science, 2009, , 255-269.	1.3	14

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145	Exploring Delay-Aware Transactions in Heterogeneous Mobile Environments. Journal of Software, 2009, 4, .	0.6	3
146	Role-Based Symmetry Reduction of Fault-Tolerant Distributed Protocols with Language Support. Lecture Notes in Computer Science, 2009, , 147-166.	1.3	3
147	Efficient Robust Storage Using Secret Tokens. Lecture Notes in Computer Science, 2009, , 269-283.	1.3	1
148	A comparative study of data transport protocols in wireless sensor networks. , 2008, , .		10
149	Aiding Modular Design and Verification of Safety-Critical Time-Triggered Systems by Use of Executable Formal Specifications. , 2008, , .		0
150	Low-latency access to robust amnesic storage. , 2008, , .		2
151	Reducing the costs of large-scale BFT replication. , 2008, , .		2
152	Message from the DCCS program chair. , 2008, , .		0
153	Robustness Evaluation of Operating Systems. , 2008, , 349-375.		2
154	Execution Path Profiling for OS Device Drivers: Viability and Methodology. Lecture Notes in Computer Science, 2008, , 90-109.	1.3	4
155	MWM: A Map-based World Model for Wireless Sensor Networks. , 2008, , .		21
156	On the Time-Complexity of Robust and Amnesic Storage. Lecture Notes in Computer Science, 2008, , 197-216.	1.3	4
157	Delay-Aware Mobile Transactions. Lecture Notes in Computer Science, 2008, , 280-291.	1.3	2
158	On the Selection of Error Model(s) for OS Robustness Evaluation. , 2007, , .		29
159	A Tunable Add-On Diagnostic Protocol for Time-Triggered Systems. , 2007, , .		10
160	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
161	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
162	Model-Based Development of Distributed Embedded Real-Time Systems with the DECOS Tool-Chain. , 2007, , .		12

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163	The Fail-Heterogeneous Architectural Model. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
164	On the Latency Efficiency of Message-Parsimonious Asynchronous Atomic Broadcast. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
165	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
166	Improving Robustness Testing of COTS OS Extensions. Lecture Notes in Computer Science, 2006, , 120-139.	1.3	7
167	Designing Efficient Fail-Safe Multitolerant Systems. Lecture Notes in Computer Science, 2005, , 428-442.	1.3	2
168	EPIC: profiling the propagation and effect of data errors in software. IEEE Transactions on Computers, 2004, 53, 512-530.	3.4	45
169	The need for a generalized compositional framework. , 0, , .		0
170	One-step Consensus with Zero-Degradation. , 0, , .		13