Vijay Laxmi

List of Publications by Year
in descending order

174 papers	1,992 citations	586496 16 h-index	445137 33 g-index
180 all docs	180 docs citations	180 times ranked	1761 citing authors

#	Article	IF	Citations
1	QoSâ€"aware Mesh-based Multicast Routing Protocols in Edge Ad Hoc Networks: Concepts and Challenges. ACM Transactions on Internet Technology, 2022, 22, 1-27.	3.0	10
2	Visibility Enhancement in Surveillance images using Deep Multi-scale Feature Fusion. , 2021, , .		0
3	SneakLeak+: Large-scale klepto apps analysis. Future Generation Computer Systems, 2020, 109, 593-603.	4.9	5
4	EspyDroid+: Precise reflection analysis of android apps. Computers and Security, 2020, 90, 101688.	4.0	16
5	Secure Proof of Ownership Using Merkle Tree for Deduplicated Storage. Automatic Control and Computer Sciences, 2020, 54, 358-370.	0.4	3
6	TRACK: An algorithm for fault-tolerant, dynamic and scalable 2D mesh network-on-chip routing reconfiguration. The Integration VLSI Journal, 2020, 72, 92-110.	1.3	5
7	Effectiveness of state-of-the-art dynamic analysis techniques in identifying diverse Android malware and future enhancements. Advances in Computers, 2020, , 73-120.	1.2	10
8	Improving Static Power Efficiency via Placement of Network Demultiplexer over Control Plane of Router in Multi-NoCs. , 2019, , .		6
9	S2DIO: an extended scalable 2D mesh network-on-chip routing reconfiguration for efficient bypass of link failures. Journal of Supercomputing, 2019, 75, 6855-6881.	2.4	6
10	APPLADroid: Automaton Based Inter-app Privacy Leak Analysis for Android. Communications in Computer and Information Science, 2019, , 219-233.	0.4	1
11	DroidDivesDeep: Android Malware Classification via Low Level Monitorable Features with Deep Neural Networks. Communications in Computer and Information Science, 2019, , 125-139.	0.4	5
12	Bloom Filter Based Privacy Preserving Deduplication System. Communications in Computer and Information Science, 2019, , 17-34.	0.4	2
13	ETGuard: Detecting D2D attacks using wireless Evil Twins. Computers and Security, 2019, 83, 389-405.	4.0	9
14	Privacy Preserving Data Offloading Based on Transformation. Lecture Notes in Computer Science, 2019, , 86-92.	1.0	0
15	UAVs Reliable Transmission for Multicast Protocols in FANETs. , 2019, , .		4
16	You click, I steal: analyzing and detecting click hijacking attacks in web pages. International Journal of Information Security, 2019, 18, 481-504.	2.3	6
17	Unsupervised Person Re-ID in Surveillance Feed Using Re-ranking. Communications in Computer and Information Science, 2019, , 179-192.	0.4	3
18	Unraveling Reflection Induced Sensitive Leaks in Android Apps. Lecture Notes in Computer Science, 2018, , 49-65.	1.0	0

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19	Enhancing QoE for video streaming in MANETs via multi-constraint routing. Wireless Networks, 2018, 24, 235-256.	2.0	15
20	A Power Efficient Crossbar Arbitration in Multi-NoC for Multicast and Broadcast Traffic. , 2018, , .		2
21	A Survey on Energy Efficient Routing for Delay Minimization in IoT Networks. , 2018, , .		6
22	SWORD: Semantic aWare andrOid malwaRe Detector. Journal of Information Security and Applications, 2018, 42, 46-56.	1.8	27
23	Secure and Energy-Efficient Routing for Cluster-Based Wireless Sensor Networks. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 24-46.	0.4	0
24	Moralism: mobility prediction with link stability based multicast routing protocol in MANETs. Wireless Networks, 2017, 23, 663-679.	2.0	21
25	Detecting Inter-App Information Leakage Paths. , 2017, , .		2
26	Improved multicast routing in MANETs using link stability and route stability. International Journal of Communication Systems, 2017, 30, e3243.	1.6	8
27	Multi-constraints link stable multicast routing protocol in MANETs. Ad Hoc Networks, 2017, 63, 115-128.	3.4	29
28	Detection of Information Leaks via Reflection in Android Apps. , 2017, , .		4
29	Balanced energy routing protocol for clustered wireless sensor network. International Journal of Information and Communication Technology, 2017, 11, 396.	0.1	0
30	SneakLeak: Detecting Multipartite Leakage Paths in Android Apps. , 2017, , .		4
31	SniffDroid: Detection of Inter-App Privacy Leaks in Android. , 2017, , .		4
32	Improving Leakage Path Coverage in Android Apps. , 2017, , .		0
33	sPECTRA: A precise framEwork for analyzing CrypTographic vulneRabilities in Android apps. , 2017, , .		3
34	Android inter-app communication threats and detection techniques. Computers and Security, 2017, 70, 392-421.	4.0	29
35	AndroTaint: An efficient android malware detection framework using dynamic taint analysis. , 2017, , .		18
36	Secure and efficient proof of ownership for deduplicated cloud storage. , 2017, , .		6

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37	Secure Random Encryption for Deduplicated Storage. Lecture Notes in Computer Science, 2017, , 164-176.	1.0	5
38	Performance-Enhanced d^2-LBDR for 2D Mesh Network-on-Chip. Communications in Computer and Information Science, 2017, , 313-323.	0.4	0
39	A Power, Thermal and Reliability-Aware Network-on-Chip. , 2017, , .		0
40	Flooding in secure wireless sensor networks. , 2017, , .		1
41	FlowMine: Android app analysis via data flow. , 2016, , .		10
42	A Power Efficient Dual Link Mesh NoC Architecture to Support Nonuniform Traffic Arbitration at Routing Logic. , 2016, , .		7
43	Android component vulnerabities: Proof of concepts and mitigation. , 2016, , .		0
44	MCLSPM: Multi-constraints link stable multicast routing protocol in adhoc networks. , 2016, , .		4
45	Ïƒ n LBDR: generic congestion handling routing implementation for twoâ€dimensional mesh networkâ€onâ€chip. IET Computers and Digital Techniques, 2016, 10, 226-232.	0.9	0
46	Colluding browser extension attack on user privacy and its implication for web browsers. Computers and Security, 2016, 63, 14-28.	4.0	9
47	ELBA: Efficient Layer Based Routing Algorithm in SDN. , 2016, , .		15
48	MimeoDroid: Large Scale Dynamic App Analysis on Cloned Devices via Machine Learning Classifiers. , 2016, , .		5
49	Reducing FIFO buffer power using architectural alternatives at RTL. , 2016, , .		2
50	Intersection Automata Based Model for Android Application Collusion. , 2016, , .		11
51	Resilient routing implementation in 2D mesh NoC. Microelectronics Reliability, 2016, 56, 189-201.	0.9	2
52	Visual Speech Recognition with Selected Boundary Descriptors. Studies in Computational Intelligence, 2016, , 367-383.	0.7	1
53	DroidAnalyst: Synergic App Framework for Static and Dynamic App Analysis. Studies in Computational Intelligence, 2016, , 519-552.	0.7	10
54	Security Challenges in Wireless Sensor Network. , 2016, , 1874-1899.		0

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55	Detection of SQLite Database Vulnerabilities in Android Apps. Lecture Notes in Computer Science, 2016, , 521-531.	1.0	2
56	d2-LBDR: Distance-Driven Routing to Handle Permanent Failures in 2D Mesh NoCs. , 2015, , .		10
57	C<sup>2</sup>-DLM: Cache coherence aware dual link mesh for on-chip interconnect. , 2015, , .		4
58	Passive Marker Based Optical System for Gait Kinematics for Lower Extremity. Procedia Computer Science, 2015, 45, 176-185.	1.2	41
59	Multivariate verification for sybil attack detection in VANET. Open Computer Science, 2015, 5, 60-78.	1.3	9
60	sandFOX. , 2015, , .		3
61	Improved adaptive routing for networksâ€onâ€chip. Electronics Letters, 2015, 51, 2092-2094.	0.5	1
62	Android Security: A Survey of Issues, Malware Penetration, and Defenses. IEEE Communications Surveys and Tutorials, 2015, 17, 998-1022.	24.8	402
63	Bandwidth-aware routing and admission control for efficient video streaming over MANETs. Wireless Networks, 2015, 21, 95-114.	2.0	20
64	CERI: Cost-Effective Routing Implementation Technique for Network-on-Chip. , 2015, , .		1
65	A Brief Comment on â€œA Complete Self-Testing and Self-Configuring NoC Infrastructure for Cost-Effective MPSoCsâ€•[ACM Transactions on Embedded Computing Systems 12 (2013) Article 106]. Transactions on Embedded Computing Systems, 2015, 14, 1-9.	2.1	1
66	Environmentâ€"Reactive Malware Behavior: Detection and Categorization. Lecture Notes in Computer Science, 2015, , 167-182.	1.0	4
67	σLBDR: Congestion-aware logic based distributed routing for 2D NoC. , 2015, , .		3
68	Improved Route Selection Approaches using Q-learning framework for 2D NoCs. , 2015, , .		8
69	A robust dynamic analysis system preventing SandBox detection by Android malware. , 2015, , .		19
70	An efficient block-discriminant identification of packed malware. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 1435-1456.	0.8	7
71	DynaDroid. , 2015, , .		0
72	Employing Program Semantics for Malware Detection. IEEE Transactions on Information Forensics and Security, 2015, 10, 2591-2604.	4.5	81

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73	A framework for thermal aware reliability estimation in 2D NoC. , 2015, , .		2
74	DRACO. , 2015, , .		24
75	AndroSimilar: Robust signature for detecting variants of Android malware. Journal of Information Security and Applications, 2015, 22, 66-80.	1.8	61
76	JellyFish attack: Analysis, detection and countermeasure in TCP-based MANET. Journal of Information Security and Applications, 2015, 22, 99-112.	1.8	19
77	A Taxonomy of Browser Attacks. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 291-313.	0.4	1
78	Fault tolerant routing implementation mechanism for irregular 2D mesh NoCs. , 2014, , .		1
79	Evaluation of Android Anti-malware Techniques against Dalvik Bytecode Obfuscation. , 2014, , .		20
80	Sybil attack detection in VANET using neighbouring vehicles. International Journal of Security and Networks, 2014, 9, 222.	0.1	24
81	Analysis of Identity Forging Attack in MANETs. , 2014, , .		1
82	Fault tolerant and highly adaptive routing for 2D NoCs. , 2014, , .		6
83	Impact analysis of attacks in multicast routing algorithms in MANETs. , 2014, , .		1
84	Exploring Worm Behaviors using DTW. , 2014, , .		2
85	Fault tolerant adaptive XY routing for HPC mesh. , 2014, , .		1
86	A novel non-minimal/minimal turn model for highly adaptive routing in 2D NoCs. , 2014, , .		2
87	Dynamic fault injection model for on-chip 2D mesh network. , 2014, , .		0
88	Highly adaptive and congestion-aware routing for 3D NoCs. , 2014, , .		0
89	A novel non-minimal turn model for highly adaptive routing in 2D NoCs. , 2014, , .		5
90	Exploiting convergence characteristics to tackle collusion attacks in OLSR for Security and Communication Networks. Security and Communication Networks, 2014, 7, 108-122.	1.0	1

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91	LSMRP: Link stability based multicast routing protocol in MANETs. , 2014, , .		12
92	P-SPADE: GPU accelerated malware packer detection. , 2014, , .		2
93	Distributed adaptive routing for spidergon NoC. , 2014, , .		4
94	CARM: Congestion Adaptive Routing Method for On Chip Networks. , 2014, , .		8
95	Detecting malicious files using non-signature-based methods. International Journal of Information and Computer Security, 2014, 6, 199.	0.2	2
96	Energy Scavenging Based HybridGSM Model for Mobile Towers. Advances in Intelligent Systems and Computing, 2014, , 343-349.	0.5	1
97	Impact analysis of JellyFish attack on TCP-based mobile ad-hoc networks. , 2013, , .		14
98	DroidOLytics: Robust Feature Signature for Repackaged Android Apps on Official and Third Party Android Markets. , 2013, , .		10
99	Energy Efficient Clustered Routing for Wireless Sensor Network. , 2013, , .		20
100	Attack models and infrastructure supported detection mechanisms for position forging attacks in vehicular ad hoc networks. CSI Transactions on ICT, 2013, 1, 261-279.	0.7	19
101	Comparing the Impact of Black Hole and Gray Hole Attack on LEACH in WSN. Procedia Computer Science, 2013, 19, 1101-1107.	1.2	41
102	QoS-aware routing for transmission of H.264/SVC encoded video traffic over MANETs. , 2013, , .		5
103	MCF: MultiComponent Features for Malware Analysis. , 2013, , .		9
104	Video streaming over MANETs: Testing and analysis using real-time emulation. , 2013, , .		4
105	Reconfigurable distributed fault tolerant routing algorithm for on-chip networks. , 2013, , .		4
106	The darker side of Firefox extension. , 2013, , .		7
107	An adaptive cross-layer routing protocol for delay-sensitive applications over MANETs. , 2013, , .		2
108	AndroSimilar. , 2013, , .		91

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109	Relevant hex patterns for malcode detection. , 2013, , .		1
110	Energy efficient LEACH-C protocol for wireless sensor network. , 2013, , .		34
111	Ns-3 emulation on ORBIT testbed. , 2013, , .		2
112	NEAR-OPTIMAL GEOMETRIC FEATURE SELECTION FOR VISUAL SPEECH RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1350026.	0.7	4
113	Fault Aware Dynamic Adaptive Routing Using LBDR. Communications in Computer and Information Science, 2013, , 304-311.	0.4	0
114	Speechreading using Modified Visual Feature Vectors. , 2013, , 292-315.		0
115	Detection attack analysis using partial watermark in DCT domain. , 2012, , .		1
116	ESCAPE. , 2012, , .		4
117	Lip peripheral motion for visual surveillance. , 2012, , .		2
118	Detection of incorrect position information using speed and time span verification in VANET. , 2012, , .		13
119	Relevant mRMR features for visual speech recognition. , 2012, , .		3
120	n-Gram modeling of relevant features for lip-reading. , 2012, , .		2
121	SPADE. , 2012, , .		5
122	Behavioural detection withAPI call-gramsto identify malicious PE files. , 2012, , .		9
123	MOMENTUM: MetamOrphic malware exploration techniques using MSA signatures. , 2012, , .		28
124	REFORM: Relevant Features for Malware Analysis. , 2012, , .		5
125	Speaker identification using optimal lip biometrics. , 2012, , .		9
126	Palmprint Matching Using LBP. , 2012, , .		6

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127	A rate adaptive and multipath routing protocol to support video streaming in MANETs. , 2012, , .		3
128	Mining control flow graph as *API call-grams* to detect portable executable malware. , 2012, , .		22
129	A Node-Disjoint Multipath Routing Method Based on AODV Protocol for MANETs. , 2012, , .		24
130	PEAL—Packed Executable AnaLysis. Lecture Notes in Computer Science, 2012, , 237-243.	1.0	8
131	Misbehavior Detection Based on Ensemble Learning in VANET. Lecture Notes in Computer Science, 2012, , 602-611.	1.0	19
132	Parameterized Path Based Randomized Oblivious Minimal Path Routing with Fault Tolerance in 2D Mesh Network on Chip. Advances in Intelligent and Soft Computing, 2012, , 63-70.	0.2	0
133	Performance analysis of MANET routing protocols for multimedia traffic. , 2011, , .		19
134	Acceleration of Functional Validation Using GPGPU. , 2011, , .		3
135	A Traffic Model for Concurrent Core Tasks in Networks-on-Chip. , 2011, , .		2
136	GA Based Congestion Aware Topology Generation for Application Specific NoC. , 2011, , .		13
137	A sybil attack detection approach using neighboring vehicles in VANET. , 2011, , .		31
138	C-Routing: An adaptive hierarchical NoC routing methodology. , 2011, , .		19
139	Scattered Feature Space for Malware Analysis. Communications in Computer and Information Science, 2011, , 562-571.	0.4	5
140	Performance analysis of minimal path fault tolerant routing in NoC. Journal of Electronics, 2011, 28, 587-595.	0.2	1
141	Detour attack in OLSR. , 2011, , .		1
142	Irregular NoC simulation framework: IrNIRGAM. , 2011, , .		3
143	Parallelizing TUNAMI-N1 Using GPGPU. , 2011, , .		5
144	A Novel Attack Model Simulation in DSDV Routing. , 2011, , .		4

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145	Position forging attacks in Vehicular Ad Hoc Networks: Implementation, impact and detection. , 2011, , .		10
146	Acceleration of packet filtering using gpgpu. , 2011, , .		1
147	Machine Learning Approach for Multiple Misbehavior Detection in VANET. Communications in Computer and Information Science, 2011, , 644-653.	0.4	84
148	Broken Link Fraud in DSDV Routing - Detection and Countermeasure. Communications in Computer and Information Science, 2011, , 162-171.	0.4	0
149	A Rate Adaptation Scheme to Support QoS for H.264/SVC Encoded Video Streams over MANETs. Communications in Computer and Information Science, 2011, , 86-95.	0.4	0
150	Contribution of Oral Periphery on Visual Speech Intelligibility. Communications in Computer and Information Science, 2011, , 183-190.	0.4	0
151	Corner Detection to Capture Significant Two Dimensional Intensity Changes. , 2011, , .		0
152	Robust Watermarking through Spatially Disjoint Transformations. Communications in Computer and Information Science, 2011, , 478-487.	0.4	2
153	Detection of Broken Link Fraud in DSDV Routing. , 2011, , 419-424.		0
154	Genetic algorithm based topology generation for application specific Network-on-Chip. , 2010, , .		9
155	Fast energy aware application specific Network-on-Chip topology generator. , 2010, , .		1
156	A collusion attack detection method for OLSR-based MANETS employing scruple packets. , 2010, , .		4
157	Difference steg-analysis for LSB embedding in images. , 2010, , .		1
158	Performance Evaluation and Detection of Sybil Attacks in Vehicular Ad-Hoc Networks. Communications in Computer and Information Science, 2010, , 473-482.	0.4	15
159	MEDUSA. , 2010, , .		49
160	Energy aware design methodologies for application specific NoC. , 2010, , .		6
161	ERA: An Efficient Routing Algorithm for Power, Throughput and Latency in Network-on-Chips. Lecture Notes in Computer Science, 2010, , 481-490.	1.0	4
162	Collusion attack resistance through forced MPR switching in OLSR. , 2010, , .		9

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163	A novel defense mechanism against sybil attacks in VANET. , 2010, , .		29
164	Minimal Path, Fault Tolerant, QoS Aware Routing with Node and Link Failure in 2-D Mesh NoC. , 2010, , .		3
165	Traffic characterization for multicasting in NoC. , 2010, , .		2
166	Permuted Image DCT Watermarking. Advances in Intelligent and Soft Computing, 2010, , 163-171.	0.2	3
167	Lipreading Using nâ€"Gram Feature Vector. Advances in Intelligent and Soft Computing, 2010, , 81-88.	0.2	3
168	Buyer seller watermarking protocol for digital rights management. , 2009, , .		6
169	Static CFG analyzer for metamorphic Malware code. , 2009, , .		12
170	Conjoined Irregular Topology and Routing Table Generation for Network-on-Chip. , 2009, , .		0
171	Structural Fault Modelling in Nano Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 6-10.	0.2	2
172	Fast Feature Point Detector. , 2008, , .		5
173	Development of a low-cost smart-card-based secure and reliable information exchange system with tamper-proofing features. International Journal of Product Development, 2008, 5, 176.	0.2	0
174	Corner Detection Using Difference Chain Code as Curvature. , 2007, , .		13