Xu Ke

List of Publications by Year
in descending order

171 papers	1,991 citations	535685 17 h-index	445137 33 g-index
175 all docs	175 docs citations	175 times ranked	1595 citing authors

#	Article	IF	Citations
1	Off-Path TCP Hijacking Attacks via the Side Channel of Downgraded IPID. IEEE/ACM Transactions on Networking, 2022, 30, 409-422.	2.6	4
2	LRVP: Lightweight Real-Time Verification of Intradomain Forwarding Paths. IEEE Systems Journal, 2022, , 1-12.	2.9	0
3	A&B: AI and Block-Based TCAM Entries Replacement Scheme for Routers. IEEE Journal on Selected Areas in Communications, 2022, 40, 2643-2661.	9.7	3
4	Congestion-Aware Modeling and Analysis of Sponsored Data Plan from End User Perspective. , 2022, , .		0
5	Exploiting Unintended Property Leakage in Blockchain-Assisted Federated Learning for Intelligent Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2265-2275.	5.5	38
6	Stability-Based Analysis and Defense against Backdoor Attacks on Edge Computing Services. IEEE Network, 2021, 35, 163-169.	4.9	15
7	MEC-Enabled Hierarchical Emotion Recognition and Perturbation-Aware Defense in Smart Cities. IEEE Internet of Things Journal, 2021, 8, 16933-16945.	5.5	17
8	Effective and Robust Physical-World Attacks on Deep Learning Face Recognition Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 4063-4077.	4.5	19
9	Acknowledgment on Demand for Transport Control. IEEE Internet Computing, 2021, 25, 109-115.	3.2	9
10	BDS+: An Inter-Datacenter Data Replication System With Dynamic Bandwidth Separation. IEEE/ACM Transactions on Networking, 2021, 29, 918-934.	2.6	13
11	Privacy-Preserving Approximate Top-k Nearest Keyword Queries over Encrypted Graphs. , 2021, , .		1
12	Efficient Fine-Grained Website Fingerprinting via Encrypted Traffic Analysis with Deep Learning. , 2021, , .		13
13	A deep reinforcement learning-based multi-optimality routing scheme for dynamic IoT networks. Computer Networks, 2021, 192, 108057.	3.2	17
14	Revisiting Acknowledgment Mechanism for Transport Control: Modeling, Analysis, and Implementation. IEEE/ACM Transactions on Networking, 2021, 29, 2678-2692.	2.6	10
15	Accurate Decentralized Application Identification via Encrypted Traffic Analysis Using Graph Neural Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 2367-2380.	4.5	99
16	Realtime Robust Malicious Traffic Detection via Frequency Domain Analysis. , 2021, , .		44
17	R-AQM: Reverse ACK Active Queue Management in Multi-tenant Data Centers. , 2021, , .		1
18	NetSpirit: A Smart Collaborative Learning Framework for DDoS Attack Detection. IEEE Network, 2021, 35, 140-147.	4.9	3

#	Article	IF	Citations
19	Frend for Edge Servers: Reduce Server Number! Keeping Service Quality!. , 2021, , .		1
20	Fine-grained Dynamic Price Prediction in Ride-on-demand Services: Models and Evaluations. Mobile Networks and Applications, 2020, 25, 505-520.	2.2	4
21	An Efficient and Compacted DAG-Based Blockchain Protocol for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 4134-4145.	7.2	66
22	Minimizing Tardiness for Data-Intensive Applications in Heterogeneous Systems: A Matching Theory Perspective. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 144-158.	4.0	12
23	Secure SVM Training Over Vertically-Partitioned Datasets Using Consortium Blockchain for Vehicular Social Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 5773-5783.	3.9	59
24	Analysis, Modeling, and Implementation of Publisher-side Ad Request Filtering. , 2020, , .		1
25	Blockchain and Data Sharing. , 2020, , 15-27.		3
26	Secure Homogeneous Data Sharing Using Blockchain. , 2020, , 39-59.		1
27	Data Sharing Incentives with Blockchain. , 2020, , 103-122.		0
28	Optimizing Feature Selection for Efficient Encrypted Traffic Classification: A Systematic Approach. IEEE Network, 2020, 34, 20-27.	4.9	52
29	ID-Based SDN for the Internet of Things. IEEE Network, 2020, 34, 76-83.	4.9	11
30	Auction-based High Timeliness Data Pricing under Mobile and Wireless Networks. , 2020, , .		5
31	Incentive mechanisms for mobile data offloading through operator-owned WiFi access points. Computer Networks, 2020, 174, 107226.	3.2	6
32	Blockchain-Assisted Secure Device Authentication for Cross-Domain Industrial IoT. IEEE Journal on Selected Areas in Communications, 2020, 38, 942-954.	9.7	201
33	Toward Blockchain-Powered Trusted Collaborative Services for Edge-Centric Networks. IEEE Network, 2020, 34, 30-36.	4.9	29
34	Understand Love of Variety in Wireless Data Market Under Sponsored Data Plans. IEEE Journal on Selected Areas in Communications, 2020, 38, 766-781.	9.7	15
35	Off-Path TCP Exploits of the Mixed IPID Assignment. , 2020, , .		14
36	TACK. , 2020, , .		23

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37	Blockchain: Empowering Secure Data Sharing. , 2020, , .		2
38	Secure Data Retrieval Using Blockchain. , 2020, , 81-101.		1
39	Encrypted traffic classification of decentralized applications on ethereum using feature fusion. , 2019, , .		24
40	Guest Editorial: Smart Grid Inspired Data Sensing, Processing and Networking Technologies. Mobile Networks and Applications, 2019, 24, 1699-1700.	2.2	2
41	Communication-Aware Container Placement and Reassignment in Large-Scale Internet Data Centers. IEEE Journal on Selected Areas in Communications, 2019, 37, 540-555.	9.7	60
42	Communication and computation cooperation in cloud radio access network with mobile edge computing. CCF Transactions on Networking, 2019, 2, 43-56.	1.0	15
43	Linewidth Narrowing of Mutually Injection Locked Semiconductor Lasers with Short and Long Delay. Applied Sciences (Switzerland), 2019, 9, 1436.	1.3	6
44	Privacy-Preserving Graph Encryption for Approximate Constrained Shortest Distance Queries. , 2019, , .		1
45	Exploring the Influence of News Articles on Bitcoin Price with Machine Learning. , 2019, , .		7
46	CoDAG: An Efficient and Compacted DAG-Based Blockchain Protocol. , 2019, , .		17
47	Interference-aware lifetime maximization with joint routing and charging in wireless sensor networks. CCF Transactions on Networking, 2019, 2, 188-206.	1.0	3
48	Secure Phrase Search for Intelligent Processing of Encrypted Data in Cloud-Based IoT. IEEE Internet of Things Journal, 2019, 6, 1998-2008.	5.5	62
49	VLA. , 2019, 3, 1-19.		22
50	Toward Cloud-Based Distributed Interactive Applications: Measurement, Modeling, and Analysis. IEEE/ACM Transactions on Networking, 2018, 26, 3-16.	2.6	18
51	Going Fast and Fair: Latency Optimization for Cloud-Based Service Chains. IEEE Network, 2018, 32, 138-143.	4.9	18
52	Modeling, Analysis, and Implementation of Universal Acceleration Platform Across Online Video Sharing Sites. IEEE Transactions on Services Computing, 2018, 11, 534-548.	3.2	12
53	Design, modeling, and analysis of online combinatorial double auction for mobile cloud computing markets. International Journal of Communication Systems, 2018, 31, e3460.	1.6	5
54	Migrating big video data to cloud: a peer-assisted approach for VoD. Peer-to-Peer Networking and Applications, 2018, 11, 1060-1074.	2.6	2

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55	Enabling Efficient Source and Path Verification via Probabilistic Packet Marking. , 2018, , .		20
56	SmartRetro: Blockchain-Based Incentives for Distributed IoT Retrospective Detection. , 2018, , .		11
57	GreenLink: An Energy Efficient Scatternet Formation for BLE Devices. Wireless Communications and Mobile Computing, 2018, 2018, 1-13.	0.8	3
58	Errata to â€œModeling, Analysis, and Implementation of Universal Acceleration Platform Across Online Video Sharing Sitesâ€• IEEE Transactions on Services Computing, 2018, 11, 740-740.	3.2	4
59	A measurement study on multi-path TCP with multiple cellular carriers on high speed rails. , 2018, , .		74
60	How to pay less: a locationâ€specific approach to predict dynamic prices in rideâ€onâ€demand services. IET Intelligent Transport Systems, 2018, 12, 610-618.	1.7	4
61	BDS. , 2018, , .		27
62	Understanding passenger reaction to dynamic prices in ride-on-demand service. , 2017, , .		3
63	A Longitudinal Measurement Study of TCP Performance and Behavior in 3G/4G Networks Over High Speed Rails. IEEE/ACM Transactions on Networking, 2017, 25, 2195-2208.	2.6	35
64	Throughput optimization of TCP incast congestion control in large-scale datacenter networks. Computer Networks, 2017, 124, 46-60.	3.2	14
65	Interest-suppression-based NDN live video broadcasting over wireless LAN. Frontiers of Computer Science, 2017, 11, 675-687.	1.6	6
66	On Efficient Offloading Control in Cloud Radio Access Network with Mobile Edge Computing. , 2017, , .		35
67	A Communication-Aware Container Re-Distribution Approach for High Performance VNFs. , 2017, , .		16
68	Equilibrium Price and Dynamic Virtual Resource Allocation for Wireless Network Virtualization. Mobile Networks and Applications, 2017, 22, 564-576.	2.2	4
69	SmartFix: Indoor Locating Optimization Algorithm for Energy-Constrained Wearable Devices. Wireless Communications and Mobile Computing, 2017, 2017, 1-13.	0.8	6
70	PieBridge. , 2016, , .		6
71	Power-Aware Wireless Transmission for Computation Offloading in Mobile Cloud. , 2016, , .		1
72	Measurement, Modeling, and Analysis of TCP in High-Speed Mobility Scenarios. , 2016, , .		5

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73	Continuous double auction for cloud market: Pricing and bidding analysis. , 2016, , .		4
74	Towards Minimal Tardiness of Data-Intensive Applications in Heterogeneous Networks. , 2016, , .		5
75	Achieving Optimal Traffic Engineering Using a Generalized Routing Framework. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 51-65.	4.0	20
76	A bargaining game theoretic method for virtual resource allocation in LTE-based cellular networks. Science China Information Sciences, 2015, 58, 1-9.	2.7	8
77	Elastic and Efficient Virtual Network Provisioning for Cloud-Based Multi-tier Applications. , 2015, , .		6
78	Towards shorter task completion time in datacenter networks. , 2015, , .		6
79	NDN Live Video Broadcasting over Wireless LAN. , 2015, , .		10
80	Performance and incentive of teamwork-based channel allocation in spectrum access networks. , 2015, , .		0
81	A Family of Stable Multipath Dual Congestion Control Algorithms. Journal of Computer Science and Technology, 2015, 30, 1274-1289.	0.9	1
82	Toward a Practical Energy Conservation Mechanism With Assistance of Resourceful Mules. IEEE Internet of Things Journal, 2015, 2, 145-158.	5.5	13
83	Virtual resource allocation for wireless virtualization networks using market equilibrium theory. , 2015, , .		25
84	A measurement study on TCP behaviors in HSPA&#x002B; networks on high-speed rails. , 2015, , .		34
85	Integrated, Distributed Traffic Control in Multidomain Networks. IEEE Transactions on Control Systems Technology, 2015, 23, 1373-1386.	3.2	8
86	Exploring the policy selection of the P2P VoD system: A simulation-based research. Peer-to-Peer Networking and Applications, 2015, 8, 459-473.	2.6	7
87	TCP Performance over Mobile Networks in High-Speed Mobility Scenarios. , 2014, , .		31
88	Online combinatorial double auction for mobile cloud computing markets. , 2014, , .		28
89	Achieving bandwidth guarantees in multi-tenant cloud networks using a dual-hose model. , 2014, , .		4
90	Towards evolvable Internet architecture-design constraints and models analysis. Science China Information Sciences, 2014, 57, 1-24.	2.7	6

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91	A Model Approach to the Estimation of Peer-to-Peer Traffic Matrices. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1101-1111.	4.0	17
92	Peer-to-peer as an infrastructure service. Peer-to-Peer Networking and Applications, 2014, 7, 456-458.	2.6	1
93	An Anti-Tracking Source-Location Privacy Protection Protocol in WSNs Based on Path Extension. IEEE Internet of Things Journal, 2014, 1, 461-471.	5.5	51
94	Resource management in radio access and IP-based core networks for IMT Advanced and Beyond. Science China Information Sciences, 2013, 56, 1-16.	2.7	3
95	Research achievements on the new generation Internet architecture and protocols. Science China Information Sciences, 2013, 56, 1-25.	2.7	3
96	The 2ACT model-based evaluation for in-network caching mechanism. , 2013, , .		0
97	SuperFlow: A Reliable, Controllable and Scalable Architecture for Large-Scale Enterprise Networks. , 2013, , .		3
98	Understanding video propagation in online social networks. , 2012, , .		16
99	Exploring the policy selection of P2P VoD system — A simulation based research. , 2012, , .		1
100	Internet resource pricing models, mechanisms, and methods. Networking Science, 2012, 1, 48-66.	1.2	22
101	Enhancing the Trust of Internet Routing With Lightweight Route Attestation. IEEE Transactions on Information Forensics and Security, 2012, 7, 691-703.	4.5	10
102	Defending Against Distance Cheating in Link-Weighted Application-Layer Multicast. IEEE/ACM Transactions on Networking, 2011, 19, 1448-1457.	2.6	3
103	An Algebraic Approach to Computing the Reliability of Internet Routing. , 2011, , .		1
104	PPVA: A universal and transparent P2SP accelerator for online video sharing. , 2011, , .		0
105	LBMP: A Logarithm-Barrier-Based Multipath Protocol for Internet Traffic Management. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 476-488.	4.0	30
106	Large-scale P2PVOD system: Focusing on clients. Science China Information Sciences, 2011, 54, 1677-1690.	2.7	0
107	A model approach to estimate Peer-to-Peer traffic matrices. , 2011, , .		10
108	SafeZone: A Hierarchical Inter-Domain Authenticated Source Address Validation Solution. , 2011, , .		0

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109	SAVT: A Practical Scheme for Source Address Validation and Traceback in Campus Network. , 2011, , .		2
110	Measurement and enhancement of BitTorrent-based video file swarming. Peer-to-Peer Networking and Applications, 2010, 3, 237-253.	2.6	5
111	Proxy caching for peer-to-peer live streaming. Computer Networks, 2010, 54, 1229-1241.	3.2	18
112	Exploring BitTorrent peer distribution via hybrid PlanetLab-Internet measurement. , 2010, , .		1
113	PPVA: A universal and transparent peer-to-peer accelerator for interactive online video sharing. , 2010, , .		19
114	AutoSig-Automatically Generating Signatures for Applications. , 2009, , .		32
115	Towards health of replication in large-scale P2P-VoD systems. , 2009, , .		5
116	Analysis and case study on multi-dimensional scalability of the Internet architecture. Science in China Series F: Information Sciences, 2008, 51, 1661-1680.	1.1	4
117	BGP parallel computing model based on the iteration tree. Journal of China Universities of Posts and Telecommunications, 2008, 15, 1-18.	0.8	5
118	Toward A Practical Scheme for IPSec Management. Information Networking, 2008 ICOIN 2008 International Conference on, 2008, , .	0.0	1
119	A High Performance and Scalable Packet Pattern-Matching Architecture. Information Networking, 2008 ICOIN 2008 International Conference on, 2008, , .	0.0	2
120	Evaluating Service Scalability of Network Architectures. , 2008, , .		0
121	TOW:A novel time and popularity sensitive cache algorithm for P2P live media streaming. , 2008, , .		0
122	Improving BitTorrent Network's Performance via Deploying Helpers. , 2008, , .		2
123	Tod-Cache: Peer-to-Peer Traffic Management and Optimization Using Combined Caching and Redirection. , 2008, , .		1
124	Utilizing Route Correlation to Improve BGP Routing Convergence. , 2007, , .		1
125	An Adaptive Mechanism to Guarantee BGP Routing Convergence with Policies Conflict. , 2007, , .		0
126	Framework for end-to-end optimal traffic control law based on overlay mesh. Journal of Communications and Networks, 2007, 9, 428-437.	1.8	0

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127	Analysis of BGP Convergence Using SHLPN Model. , 2007, , .		2
128	MO-Video: An application layer infrastructure for live media streaming. , 2006, , .		0
129	A Variation of Route Flap Damping to Improve BGP Routing Convergence. IEEE International Workshop on Quality of Service, 2006, , .	0.0	2
130	Smooth Handoff Based on Virtual Interface in Wireless Network. , 2006, , .		0
131	Research on Next-Generation Internet Architecture. Journal of Computer Science and Technology, 2006, 21, 723-731.	0.9	5
132	Building Trees to Support Comparable Multi-class Services in Edge Overlay Multicast. Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on, 2006, , .	0.0	0
133	Smooth Handoff Based on Virtual Interface in Wireless Network. , 2006, , .		0
134	Performance analysis of multicast routing protocol PIM-SM. , 2005, , .		5
135	Impact of receiver cheating on the stability of ALM tree. , 2005, , .		15
136	EASYMN: AN EFFECTIVE IP MOBILITY SOLUTION FOR HIGH-MOBILITY NETWORK. , 2005, , .		0
137	Simple quality-of-service path first protocol and modeling analysis. , 2004, , .		2
138	Adjustable multi-constrained routing with a novel evaluation method. , 2003, , .		4
139	Precomputation for multiconstrained QoS routing in high-speed networks. , 2003, , .		30
140	A non-collision hash trie-tree based fast IP classification algorithm. Journal of Computer Science and Technology, 2002, 17, 219-226.	0.9	10
141	Precomputation for finding paths with two additive weights. , 0, , .		3
142	The analysis and design of fast route lookup algorithms for high performance router. , 0, , .		1
143	Enhanced reference implementation applied in routing protocol test. , 0, , .		2
144	Performance model and analysis of a distributed router. , 0, , .		2

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145	Proportional fairness scheduling on tandem network. , 0, , .		2
146	A novel learning method for special Bayesian networks. , 0, , .		1
147	A new method for macroeconomic prediction. , 0, , .		0
148	The design and implementation of router security subsystem based on IPSec. , 0, , .		0
149	A system analysis approach for protocol test. , 0, , .		0
150	A hierarchical approach to establish an efficient upgrade plan. , 0, , .		0
151	Rethink the tradeoff between proportional controller and PI controller. , 0, , .		3
152	NLRI storage aggregation of BGP-4 routing information. , 0, , .		0
153	Multi-constrained routing based on simulated annealing. , 0, , .		12
154	The research on security architecture for active networks and security mechanism for active nodes. , 0, , .		0
155	An equation-based network-supported for layered multicast congestion control. , 0, , .		0
156	Internet routing emulation system and stress testing. , 0, , .		1
157	Statistical analysis of stability of multicast trees in cumulative layered multicast. , 0, , .		0
158	A novel model to analyze the performance of routing lookup algorithms. , 0, , .		2
159	WSAP: provide loss rate differentiation with active queue management. , 0, , .		3
160	An Internet routing emulation system: research and development. , 0, , .		1
161	The degree-constrained multicasting algorithm using ant algorithm. , 0, , .		4
162	Adjustable multi-constrained routing with a novel evaluation method. , 0, , .		1

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163	How to evaluate scalability of packet switching network?. , 0, , .		0
164	A novel architecture in high availability (HA) systems. , 0, , .		0
165	A multicast-liked lightweight solution for mobile SCTP-based IP mobility. , 0, , .		1
166	Using fuzzy-PI controller in active queue management. , 0, , .		3
167	On peer-to-peer client web cache sharing. , 0, , .		2
168	A Modularized QoS Multicasting Approach on Common Homogeneous Trees for Heterogeneous Members in DiffServ. , 0, , .		1
169	An Improved Wu-Manber Multiple Patterns Matching Algorithm. , 0, , .		20
170	Truthful Application-Layer Multicast in Mesh-based Selfish Overlays. , 0, , .		0
171	A fast IP classification algorithm applying to multiple fields. , 0, , .		2