

# Kui Ren

## List of Publications by Year in descending order

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Version: 2024-02-01

157  
papers

19,711  
citations

61687

45  
h-index

62345

84  
g-index

160  
all docs

160  
docs citations

160  
times ranked

10164  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Secure Outsourcing of Modular Inversion for Arbitrary and Variable Modulus. IEEE Transactions on Services Computing, 2022, 15, 241-253.	3.2	23
2	Design and Evaluation of Fluctuating Power Logic to Mitigate Power Analysis at the Cell Level. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 1063-1076.	1.9	3
3	Multiple-€replica integrity auditing schemes for cloud data storage. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	1.4	10
4	Ranked Search on Encrypted Data. , 2021, , 1-4.		0
5	Pushing the Limit of PFA: Enhanced Persistent Fault Analysis on Block Ciphers. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 1102-1116.	1.9	5
6	Building In-the-Cloud Network Functions: Security and Privacy Challenges. Proceedings of the IEEE, 2021, 109, 1888-1919.	16.4	11
7	You Can Access but You Cannot Leak: Defending Against Illegal Content Redistribution in Encrypted Cloud Media Center. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 1218-1231.	3.7	25
8	Towards Differentially Private Truth Discovery for Crowd Sensing Systems. , 2020, , .		11
9	Practical Secure Computation Outsourcing. ACM Computing Surveys, 2019, 51, 1-40.	16.1	76
10	PriWhisper+: An Enhanced Acoustic Short-Range Communication System for Smartphones. IEEE Internet of Things Journal, 2019, 6, 614-627.	5.5	5
11	Real-Time Privacy-Preserving Data Release Over Vehicle Trajectory. IEEE Transactions on Vehicular Technology, 2019, 68, 8091-8102.	3.9	42
12	Toward Hardware-Rooted Smartphone Authentication. IEEE Wireless Communications, 2019, 26, 114-119.	6.6	32
13	Fluctuating Power Logic: SCA Protection by $V_{DD}$ Randomization at the Cell-level. , 2019, , .		5
14	CFP: Enabling Camera Fingerprint Concealment for Privacy-Preserving Image Sharing. , 2019, , .		0
15	LightBox. , 2019, , .		42
16	Privacy-Preserving Truth Discovery in Crowd Sensing Systems. ACM Transactions on Sensor Networks, 2019, 15, 1-32.	2.3	50
17	Towards Privacy-Preserving Content-Based Image Retrieval in Cloud Computing. IEEE Transactions on Cloud Computing, 2018, 6, 276-286.	3.1	134
18	Enabling Generic, Verifiable, and Secure Data Search in Cloud Services. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1721-1735.	4.0	71

#	ARTICLE	IF	CITATIONS
19	The Dual Role of Smartphones in IoT Security. Lecture Notes in Computer Science, 2018, , 21-24.	1.0	0
20	Privacy-Preserving Image Processing in the Cloud. IEEE Cloud Computing, 2018, 5, 48-57.	5.3	39
21	Enabling Efficient User Revocation in Identity-based Cloud Storage Auditing for Shared Big Data. IEEE Transactions on Dependable and Secure Computing, 2018, , 1-1.	3.7	69
22	Privacy Protection Scheme Based on Remote Anonymous Attestation for Trusted Smart Meters. IEEE Transactions on Smart Grid, 2018, 9, 3313-3320.	6.2	29
23	Security and Cloud Outsourcing Framework for Economic Dispatch. IEEE Transactions on Smart Grid, 2018, 9, 5810-5819.	6.2	5
24	Toward Secure Outsourced Middlebox Services: Practices, Challenges, and Beyond. IEEE Network, 2018, 32, 166-171.	4.9	23
25	Searching an Encrypted Cloud Meets Blockchain: A Decentralized, Reliable and Fair Realization. , 2018, , .		165
26	Enabling Online Robust Barcode-Based Visible Light Communication With Realtime Feedback. IEEE Transactions on Wireless Communications, 2018, 17, 8063-8076.	6.1	21
27	Middlebox-Based Packet-Level Redundancy Elimination Over Encrypted Network Traffic. IEEE/ACM Transactions on Networking, 2018, 26, 1742-1753.	2.6	4
28	My Smartphone Recognizes Genuine QR Codes!. , 2018, 2, 1-20.		7
29	SecSAKE. , 2018, , .		3
30	Ensuring Security and Privacy Preservation for Cloud Data Services. ACM Computing Surveys, 2017, 49, 1-39.	16.1	115
31	Privacy-Preserving Smart Semantic Search Based on Conceptual Graphs Over Encrypted Outsourced Data. IEEE Transactions on Information Forensics and Security, 2017, 12, 1874-1884.	4.5	130
32	Cardiac Scan. , 2017, , .		117
33	Enabling Central Keyword-Based Semantic Extension Search Over Encrypted Outsourced Data. IEEE Transactions on Information Forensics and Security, 2017, 12, 2986-2997.	4.5	65
34	Generating Synthetic Decentralized Social Graphs with Local Differential Privacy. , 2017, , .		103
35	SPABox: Safeguarding Privacy During Deep Packet Inspection at a MiddleBox. IEEE/ACM Transactions on Networking, 2017, 25, 3753-3766.	2.6	36
36	SecGDB: Graph Encryption for Exact Shortest Distance Queries with Efficient Updates. Lecture Notes in Computer Science, 2017, , 79-97.	1.0	39

#	ARTICLE	IF	CITATIONS
37	Data Independent Identification for Privacy Preservation. , 2017, , .		0
38	Increasing User Capacity of Wireless Physical-Layer Identification in Internet of Things. , 2016, , .		1
39	<i>P</i> <sup>2</sup> -SAS. , 2016, , .		19
40	Securing SIFT: Privacy-Preserving Outsourcing Computation of Feature Extractions Over Encrypted Image Data. IEEE Transactions on Image Processing, 2016, 25, 3411-3425.	6.0	100
41	Wireless Physical-Layer Identification: Modeling and Validation. IEEE Transactions on Information Forensics and Security, 2016, 11, 2091-2106.	4.5	147
42	EyeVeri: A secure and usable approach for smartphone user authentication. , 2016, , .		41
43	Preserving Incumbent Users' Privacy in Server-Driven Dynamic Spectrum Access Systems. , 2016, , .		5
44	A Privacy-Preserving and Copy-Deterrence Content-Based Image Retrieval Scheme in Cloud Computing. IEEE Transactions on Information Forensics and Security, 2016, 11, 2594-2608.	4.5	595
45	Secure Surfing: Privacy-Preserving Speeded-Up Robust Feature Extractor. , 2016, , .		20
46	Catch me in the dark: Effective privacy-preserving outsourcing of feature extractions over image data. , 2016, , .		29
47	My Smartphone Knows What You Print. , 2016, , .		68
48	Toward Efficient Multi-Keyword Fuzzy Search Over Encrypted Outsourced Data With Accuracy Improvement. IEEE Transactions on Information Forensics and Security, 2016, 11, 2706-2716.	4.5	444
49	SecSIFT. ACM Transactions on Multimedia Computing, Communications and Applications, 2016, 12, 1-24.	3.0	21
50	Enabling Secure and Fast Indexing for Privacy-Assured Healthcare Monitoring via Compressive Sensing. IEEE Transactions on Multimedia, 2016, 18, 2002-2014.	5.2	40
51	User capacity of wireless physical-layer identification: An information-theoretic perspective. , 2016, , .		12
52	Real-time hidden acoustic signal capture with smartphones. , 2016, , .		4
53	Heavy Hitter Estimation over Set-Valued Data with Local Differential Privacy. , 2016, , .		184
54	Messages behind the sound. , 2016, , .		53

#	ARTICLE	IF	CITATIONS
55	Securing acoustics-based short-range communication systems: an overview. Journal of Communications and Information Networks, 2016, 1, 44-51.	3.5	9
56	Preserving incumbent users' privacy in exclusion-zone-based spectrum access systems. , 2016, , .		3
57	SecHOG. , 2016, , .		34
58	Enabling Ciphertext Deduplication for Secure Cloud Storage and Access Control. , 2016, , .		16
59	Jamming-Resistant Multiradio Multichannel Opportunistic Spectrum Access in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 8331-8344.	3.9	29
60	Enabling Cloud Storage Auditing With Verifiable Outsourcing of Key Updates. IEEE Transactions on Information Forensics and Security, 2016, 11, 1362-1375.	4.5	130
61	Enabling Personalized Search over Encrypted Outsourced Data with Efficiency Improvement. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2546-2559.	4.0	583
62	Secure Optimization Computation Outsourcing in Cloud Computing: A Case Study of Linear Programming. IEEE Transactions on Computers, 2016, 65, 216-229.	2.4	77
63	SBVLC: Secure Barcode-Based Visible Light Communication for Smartphones. IEEE Transactions on Mobile Computing, 2016, 15, 432-446.	3.9	58
64	Rise of the Indoor Crowd. , 2015, , .		48
65	Enabling Cloud Storage Auditing With Key-Exposure Resistance. IEEE Transactions on Information Forensics and Security, 2015, 10, 1167-1179.	4.5	159
66	Verifiable Searchable Symmetric Encryption from Indistinguishability Obfuscation. , 2015, , .		41
67	Rain Bar: Robust Application-Driven Visual Communication Using Color Barcodes. , 2015, , .		31
68	CloudBI: Practical Privacy-Preserving Outsourcing of Biometric Identification in the Cloud. Lecture Notes in Computer Science, 2015, , 186-205.	1.0	45
69	Symmetric-Key Based Proofs of Retrievability Supporting Public Verification. Lecture Notes in Computer Science, 2015, , 203-223.	1.0	44
70	Crowd Map: Accurate Reconstruction of Indoor Floor Plans from Crowdsourced Sensor-Rich Videos. , 2015, , .		44
71	Cloud-Enabled Privacy-Preserving Truth Discovery in Crowd Sensing Systems. , 2015, , .		109
72	Towards Efficient Privacy-preserving Image Feature Extraction in Cloud Computing. , 2014, , .		87

#	ARTICLE	IF	CITATIONS
73	A privacy-aware cloud-assisted healthcare monitoring system via compressive sensing. , 2014, , .		45
74	Privacy-preserving outsourcing of image global feature detection. , 2014, , .		15
75	All your location are belong to us. , 2014, , .		102
76	$\text{PriWhisper}$ : Enabling Keyless Secure Acoustic Communication for Smartphones. IEEE Internet of Things Journal, 2014, 1, 33-45.	5.5	59
77	PPTP: Privacy-Preserving Traffic Padding in Web-Based Applications. IEEE Transactions on Dependable and Secure Computing, 2014, 11, 538-552.	3.7	13
78	Privacy-Preserving Multi-Keyword Ranked Search over Encrypted Cloud Data. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 222-233.	4.0	838
79	Proof-Carrying Cloud Computation: The Case of Convex Optimization. IEEE Transactions on Information Forensics and Security, 2014, 9, 1790-1803.	4.5	15
80	Optimal Load Balancing and Energy Cost Management for Internet Data Centers in Deregulated Electricity Markets. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2659-2669.	4.0	42
81	SBVLC: Secure barcode-based visible light communication for smartphones. , 2014, , .		31
82	Enabling Privacy-Preserving Image-Centric Social Discovery. , 2014, , .		37
83	Private image computation: The case of cloud based privacy-preserving SIFT. , 2014, , .		3
84	Harnessing the Cloud for Securely Outsourcing Large-Scale Systems of Linear Equations. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1172-1181.	4.0	128
85	Attribute-based fine-grained access control with efficient revocation in cloud storage systems. , 2013, , .		95
86	Privacy-Assured Outsourcing of Image Reconstruction Service in Cloud. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 166-177.	3.2	100
87	DAC-MACS: Effective data access control for multi-authority cloud storage systems. , 2013, , .		95
88	DAC-MACS: Effective Data Access Control for Multiauthority Cloud Storage Systems. IEEE Transactions on Information Forensics and Security, 2013, 8, 1790-1801.	4.5	211
89	Proof-carrying cloud computation: The case of convex optimization. , 2013, , .		9
90	Privacy-Preserving Public Auditing for Secure Cloud Storage. IEEE Transactions on Computers, 2013, 62, 362-375.	2.4	980

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91	Scalable and Secure Sharing of Personal Health Records in Cloud Computing Using Attribute-Based Encryption. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 131-143.	4.0	873
92	Secure ad hoc trust initialization and key management in wireless body area networks. ACM Transactions on Sensor Networks, 2013, 9, 1-35.	2.3	89
93	Locating malicious nodes for data aggregation in wireless networks. , 2012, , .		3
94	Joint UFH and power control for effective wireless anti-jamming communication. , 2012, , .		8
95	Data Security in Cloud Computing. , 2012, , 389-410.		10
96	Quantitative Analysis of Load Redistribution Attacks in Power Systems. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1731-1738.	4.0	170
97	Distributed Privacy-Preserving Access Control in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1427-1438.	4.0	46
98	USOR: An Unobservable Secure On-Demand Routing Protocol for Mobile Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2012, 11, 1922-1932.	6.1	49
99	Toward Secure and Dependable Storage Services in Cloud Computing. IEEE Transactions on Services Computing, 2012, 5, 220-232.	3.2	412
100	Achieving usable and privacy-assured similarity search over outsourced cloud data. , 2012, , .		184
101	Enabling Secure and Efficient Ranked Keyword Search over Outsourced Cloud Data. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1467-1479.	4.0	408
102	Towards Optimal Electric Demand Management for Internet Data Centers. IEEE Transactions on Smart Grid, 2012, 3, 183-192.	6.2	109
103	Towards Optimal Adaptive UFH-Based Anti-Jamming Wireless Communication. IEEE Journal on Selected Areas in Communications, 2012, 30, 16-30.	9.7	62
104	Security Challenges for the Public Cloud. IEEE Internet Computing, 2012, 16, 69-73.	3.2	620
105	k-Indistinguishable Traffic Padding in Web Applications. Lecture Notes in Computer Science, 2012, , 79-99.	1.0	11
106	Dependable and Secure Sensor Data Storage with Dynamic Integrity Assurance. ACM Transactions on Sensor Networks, 2011, 8, 1-24.	2.3	25
107	Harnessing the Cloud for Securely Solving Large-Scale Systems of Linear Equations. , 2011, , .		53
108	Anti-jamming communication in cognitive radio networks with unknown channel statistics. , 2011, , .		37

#	ARTICLE	IF	CITATIONS
109	Privacy-Preserving Query over Encrypted Graph-Structured Data in Cloud Computing. , 2011, , .		98
110	Privacy-preserving multi-keyword ranked search over encrypted cloud data. , 2011, , .		334
111	Enabling Public Auditability and Data Dynamics for Storage Security in Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 847-859.	4.0	989
112	Secret key generation exploiting channel characteristics in wireless communications. IEEE Wireless Communications, 2011, 18, 6-12.	6.6	199
113	Modeling Load Redistribution Attacks in Power Systems. IEEE Transactions on Smart Grid, 2011, 2, 382-390.	6.2	463
114	Guest Editorial Cyber, Physical, and System Security for Smart Grid. IEEE Transactions on Smart Grid, 2011, 2, 643-644.	6.2	10
115	Enhancing Attribute-Based Encryption with Attribute Hierarchy. Mobile Networks and Applications, 2011, 16, 553-561.	2.2	66
116	Fast and scalable secret key generation exploiting channel phase randomness in wireless networks. , 2011, , .		188
117	Wireless key establishment with asynchronous clocks. , 2011, , .		0
118	Jamming-Resilient Dynamic Spectrum Access for Cognitive Radio Networks. , 2011, , .		14
119	Delay-bounded adaptive UFH-based anti-jamming wireless communication. , 2011, , .		12
120	Secure and practical outsourcing of linear programming in cloud computing. , 2011, , .		218
121	Secure Device Pairing. , 2011, , 1111-1115.		1
122	Jamming-Resistant Communication in Multi-Channel Multi-hop Multi-path Wireless Networks. Lecture Notes in Computer Science, 2011, , 280-291.	1.0	0
123	Attribute-based on-demand multicast group setup with membership anonymity. Computer Networks, 2010, 54, 377-386.	3.2	24
124	PCM: a privacy-preserving detection mechanism in mobile <i>ad hoc</i> networks. Security and Communication Networks, 2010, 3, 167-184.	1.0	1
125	Securing Personal Health Records in Cloud Computing: Patient-Centric and Fine-Grained Data Access Control in Multi-owner Settings. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 89-106.	0.2	228
126	Secure Ranked Keyword Search over Encrypted Cloud Data. , 2010, , .		504

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127	Data security and privacy in wireless body area networks. IEEE Wireless Communications, 2010, 17, 51-58.	6.6	447
128	Attribute based data sharing with attribute revocation. , 2010, , .		392
129	Privacy-Preserving Public Auditing for Data Storage Security in Cloud Computing. , 2010, , .		860
130	Achieving Secure, Scalable, and Fine-grained Data Access Control in Cloud Computing. , 2010, , .		989
131	Toward publicly auditable secure cloud data storage services. IEEE Network, 2010, 24, 19-24.	4.9	308
132	Fuzzy Keyword Search over Encrypted Data in Cloud Computing. , 2010, , .		580
133	PEACE: A Novel Privacy-Enhanced Yet Accountable Security Framework for Metropolitan Wireless Mesh Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 203-215.	4.0	38
134	Anonymous user communication for privacy protection in wireless metropolitan mesh networks. , 2009, , .		11
135	Multi-User Broadcast Authentication in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 4554-4564.	3.9	91
136	On Address Privacy in Mobile Ad Hoc Networks. Mobile Networks and Applications, 2009, 14, 188-197.	2.2	6
137	Energy aware efficient geographic routing in lossy wireless sensor networks with environmental energy supply. Wireless Networks, 2009, 15, 39-51.	2.0	92
138	Enabling Public Verifiability and Data Dynamics for Storage Security in Cloud Computing. Lecture Notes in Computer Science, 2009, , 355-370.	1.0	497
139	Ensuring data storage security in Cloud Computing. , 2009, , .		411
140	Security, privacy, and accountability in wireless access networks. IEEE Wireless Communications, 2009, 16, 80-87.	6.6	34
141	Privacy-Aware Attribute-Based Encryption with User Accountability. Lecture Notes in Computer Science, 2009, , 347-362.	1.0	117
142	Defending against Key Abuse Attacks in KP-ABE Enabled Broadcast Systems. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 311-329.	0.2	42
143	Secure and Fault-Tolerant Event Boundary Detection in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2008, 7, 354-363.	6.1	34
144	LEDS: Providing Location-Aware End-to-End Data Security in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2008, 7, 585-598.	3.9	109

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145	A Sophisticated Privacy-Enhanced Yet Accountable Security Framework for Metropolitan Wireless Mesh Networks. , 2008, , .		30
146	Anonymous Misbehavior Detection in Mobile Ad Hoc Networks. , 2008, , .		3
147	Attribute-based content distribution with hidden policy. , 2008, , .		9
148	Distributed Key Management with Protection Against RSU Compromise in Group Signature Based VANETs. , 2008, , .		45
149	Optimized User Revocation for Group Signature Based Privacy-Aware PKI. , 2008, , .		0
150	Attribute-based on-demand multicast group setup with membership anonymity. , 2008, , .		21
151	Multi-user Broadcast Authentication in Wireless Sensor Networks. , 2007, , .		42
152	On Broadcast Authentication in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2007, 6, 4136-4144.	6.1	133
153	Privacy-enhanced, Attack-resilient Access Control in Pervasive Computing Environments with Optional Context Authentication Capability. Mobile Networks and Applications, 2007, 12, 79-92.	2.2	30
154	A new approach for random key pre-distribution in large-scale wireless sensor networks. Wireless Communications and Mobile Computing, 2006, 6, 307-318.	0.8	47
155	Energy-aware geographic routing in lossy wireless sensor networks with environmental energy supply. , 2006, , .		35
156	Energy-Efficient Geographic Routing in Environmentally Powered Wireless Sensor Networks. , 2006, , .		12
157	Persistent Fault Analysis on Block Ciphers. Iacr Transactions on Cryptographic Hardware and Embedded Systems, 0, , 150-172.	0.0	52