

# Rongke Liu

## List of Publications by Year in descending order

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123  
papers

1,241  
citations

623734

14  
h-index

454955

30  
g-index

123  
all docs

123  
docs citations

123  
times ranked

1091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Efficient Data Collection and Device Positioning in UAV-Assisted IoT. IEEE Internet of Things Journal, 2020, 7, 1122-1139.	8.7	221
2	A Novel Puncturing Scheme for Polar Codes. IEEE Communications Letters, 2014, 18, 2081-2084.	4.1	140
3	Outage Behaviors of NOMA-Based Satellite Network Over Shadowed-Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 6818-6821.	6.3	69
4	SAR Image Despeckling Using Refined Lee Filter. , 2015, , .		64
5	Secure Communications in a Unified Non-Orthogonal Multiple Access Framework. IEEE Transactions on Wireless Communications, 2020, 19, 2163-2178.	9.2	57
6	Low-Complexity Compression Method for Hyperspectral Images Based on Distributed Source Coding. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 224-227.	3.1	37
7	Virtual Network Function Placement in Satellite Edge Computing With a Potential Game Approach. IEEE Transactions on Network and Service Management, 2022, 19, 1243-1259.	4.9	34
8	Hierarchical Multi-Agent Optimization for Resource Allocation in Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 692-707.	5.6	33
9	Construction of polar codes for channels with memory. , 2015, , .		27
10	Simulation and Analysis of Device Positioning in 5G Ultra-Dense Network. , 2019, , .		24
11	Path Splitting Selecting Strategy-Aided Successive Cancellation List Algorithm for Polar Codes. IEEE Communications Letters, 2019, 23, 422-425.	4.1	20
12	Stereo-Matching Network for Structured Light. IEEE Signal Processing Letters, 2019, 26, 164-168.	3.6	19
13	Weighted adaptive filtering algorithm for carrier tracking of deep space signal. Chinese Journal of Aeronautics, 2015, 28, 1236-1244.	5.3	17
14	UAV Swarm-Enabled Localization in Isolated Region: A Rigidity-Constrained Deployment Perspective. IEEE Wireless Communications Letters, 2021, 10, 2032-2036.	5.0	17
15	Millimeter-Wave MIMO-NOMA-Based Positioning System for Internet-of-Things Applications. IEEE Internet of Things Journal, 2020, 7, 11068-11077.	8.7	17
16	Feasibility Study of UAV-Assisted Anti-Jamming Positioning. IEEE Transactions on Vehicular Technology, 2021, 70, 7718-7733.	6.3	15
17	Side Information Generation Based on Hierarchical Motion Estimation in Distributed Video Coding. Chinese Journal of Aeronautics, 2009, 22, 167-173.	5.3	14
18	A Low-Complexity SNR Estimation Algorithm Based on Frozen Bits of Polar Codes. IEEE Communications Letters, 2016, 20, 2354-2357.	4.1	13

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19	Accurate Depth Extraction Method for Multiple Light-Coding-Based Depth Cameras. IEEE Transactions on Multimedia, 2017, 19, 685-701.	7.2	13
20	Dynamic Resource Allocation for Virtual Network Function Placement in Satellite Edge Clouds. IEEE Transactions on Network Science and Engineering, 2022, 9, 2252-2265.	6.4	13
21	Polar codes for channels with deletions. , 2017, , .		12
22	Design of mmWave Directional Antenna for Enhanced 5G Broadcasting Coverage. Sensors, 2021, 21, 746.	3.8	12
23	A Gb/s parallel block-based Viterbi decoder for convolutional codes on GPU. , 2016, , .		11
24	Service Chaining Placement Based on Satellite Mission Planning in Ground Station Networks. IEEE Transactions on Network and Service Management, 2021, 18, 3049-3063.	4.9	11
25	A Novel Rate-Adaptive Distributed Source Coding Scheme Using Polar Codes. IEEE Communications Letters, 2013, 17, 143-146.	4.1	10
26	Work in progress: 3D beamforming methods with user-specific elevation beamforming. , 2014, , .		10
27	New Min-Sum Decoders Based on Deep Learning for Polar Codes. , 2018, , .		10
28	3D Deployment of Multiple UAVs for Emergent On-Demand Offloading. , 2020, , .		10
29	A V2X-Integrated Positioning Methodology in Ultradense Networks. IEEE Internet of Things Journal, 2021, 8, 17014-17028.	8.7	10
30	Cooperative Positioning for V2X Applications Using GNSS Carrier Phase and UWB Ranging. IEEE Communications Letters, 2021, 25, 1876-1880.	4.1	10
31	High Throughput Pipeline Decoder for LDPC Convolutional Codes on GPU. IEEE Communications Letters, 2015, 19, 2066-2069.	4.1	9
32	Joint Successive Cancellation Decoding for Bit-Interleaved Polar Coded Modulation. IEEE Communications Letters, 2016, 20, 224-227.	4.1	9
33	Toward Reliable UAV-Enabled Positioning in Mountainous Environments: System Design and Preliminary Results. IEEE Transactions on Reliability, 2022, 71, 1435-1463.	4.6	9
34	Parity Check Aided SC-Flip Decoding Algorithms for Polar Codes. IEEE Transactions on Vehicular Technology, 2021, 70, 10359-10368.	6.3	9
35	Fast GAMP Algorithm for Nonlinearly Distorted OFDM Signals. IEEE Communications Letters, 2021, 25, 1682-1686.	4.1	9
36	EXIT Chart Aided LDPC Code Design for Symmetric Alpha-Stable Impulsive Noise. IEEE Communications Letters, 2017, 21, 464-467.	4.1	7

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37	Noisy Gradient Descent Bit-Flipping Decoder Based on Adjustment Factor for LDPC Codes. IEEE Communications Letters, 2018, 22, 1152-1155.	4.1	7
38	A Novel Blind Detection Scheme of Polar Codes. IEEE Communications Letters, 2019, 23, 1289-1292.	4.1	7
39	Prioritized Uplink Resource Allocation in Smart Grid Backscatter Communication Networks via Deep Reinforcement Learning. Electronics (Switzerland), 2020, 9, 622.	3.1	7
40	Efficient Blind Detection Scheme Based on Simplified Decoding of Polar Codes. IEEE Wireless Communications Letters, 2021, 10, 864-868.	5.0	7
41	A Low PAPR Constellation Mapping Scheme for Rate Compatible Modulation. IEEE Communications Letters, 2016, 20, 256-259.	4.1	6
42	A Novel Scrambler Design for Enhancing Secrecy Transmission Based On Polar Code. IEEE Communications Letters, 2017, 21, 1679-1682.	4.1	6
43	Depth extraction for a structured light system based on mismatched image pair rectification using a virtual camera. IET Image Processing, 2017, 11, 1086-1093.	2.5	6
44	Symbol Flipping Algorithm With Self-Adjustment Strategy for LDPC Codes Over GF(\$q\$). IEEE Transactions on Vehicular Technology, 2019, 68, 7189-7193.	6.3	6
45	Design and Analysis of a Low-Complexity Decoding Algorithm for Spinal Codes. IEEE Transactions on Vehicular Technology, 2019, 68, 4667-4679.	6.3	6
46	Future 5G mmWave TV Service With Fast List Decoding of Polar Codes. IEEE Transactions on Broadcasting, 2020, 66, 525-533.	3.2	6
47	A non-linear LLR approximation for LDPC decoding over impulsive noise channels. , 2014, , .		5
48	Irregular Repetition Slotted ALOHA with Priority (P-IRSA). , 2016, , .		5
49	Modified fast Fourier transform in FBMC for satellite communications. Chinese Journal of Aeronautics, 2017, 30, 1519-1527.	5.3	5
50	Joint Channel Estimation and LDPC Decoding Over Time-Varying Impulsive Noise Channels. IEEE Transactions on Communications, 2018, 66, 2376-2383.	7.8	5
51	Detecting the Number of Active Users in IRSA Access Protocols. , 2018, , .		5
52	A Simplified Decoding Method of Polar Codes Based on Hypothesis Testing. IEEE Communications Letters, 2020, 24, 530-533.	4.1	5
53	High-Throughput Adaptive List Decoding Architecture for Polar Codes on GPU. IEEE Transactions on Signal Processing, 2022, 70, 878-889.	5.3	5
54	Simplified multi-bit SC list decoding for polar codes. , 2016, , .		4

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55	Neural Network Aided SC Decoder for Polar Codes. , 2018, , .		4
56	Novel non-linear demapper for soft decision decoder of LDPC codes in impulsive noise. IET Communications, 2019, 13, 796-801.	2.2	4
57	Mobility Load Balancing with Handover Minimization for 5G Small Cell Networks. , 2020, , .		4
58	Simplified Successive-Cancellation List Decoding of Non-Binary Polar Codes with Rate-1 Node. , 2020, , .		4
59	Efficient-Memory and Low-Latency BP Decoding Algorithm for Polar Codes. IEEE Communications Letters, 2020, 24, 1236-1239.	4.1	4
60	Selective Embedding with Gated Fusion for 6D Object Pose Estimation. Neural Processing Letters, 2020, 51, 2417-2436.	3.2	4
61	Controllable Positioning Service With UAV-Enabled Cooperative Jamming. IEEE Wireless Communications Letters, 2021, 10, 1929-1933.	5.0	4
62	Significance-Test Based Blind Detection for 5G. IEEE Transactions on Vehicular Technology, 2022, 71, 7957-7962.	6.3	4
63	Low complexity DCT-based distributed source coding with Gray code for hyperspectral images. Journal of Systems Engineering and Electronics, 2010, 21, 927-933.	2.2	3
64	Near-optimal rate adaptation based on spinal codes for incremental redundancy truncated HARQ. , 2014, , .		3
65	A simplified Gaussian approximation algorithm for polar codes. , 2017, , .		3
66	High-Throughput Multi-Codeword Decoder for Non-Binary LDPC Codes on GPU. IEEE Communications Letters, 2018, 22, 486-489.	4.1	3
67	A Novel Multipath Mitigation Method for 5G Positioning. , 2019, , .		3
68	GPU-based Implementation of Belief Propagation Decoding for Polar Codes. , 2019, , .		3
69	Scenario-Simplified Successive Cancellation Decoding of Polar Codes for Channel With Deletions. IEEE Access, 2019, 7, 18172-18182.	4.2	3
70	A Dynamic Access Probability Adjustment Strategy for Coded Random Access Schemes. Sensors, 2019, 19, 4206.	3.8	3
71	Unrecovered Users Distribution in Coded Random Access Systems with Erasures. , 2019, , .		3
72	Novel Distributed Beamforming Algorithms for Heterogeneous Space Terrestrial Integrated Network. IEEE Internet of Things Journal, 2022, 9, 11351-11364.	8.7	3

#	ARTICLE	IF	CITATIONS
73	A Cooperative NOMA-Aided Multi-Dimensional Beam Hopping Method in Satellite Communication Systems. , 2021, , .		3
74	A Low Complexity Algorithm of Dynamic Resource Allocation for Downlink Multi-Carrier NOMA Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 13418-13423.	6.3	3
75	High Hardware Utilization and Low Memory Block Requirement Decoding of QC-LDPC Codes. Chinese Journal of Aeronautics, 2012, 25, 747-756.	5.3	2
76	An interference reduction method based on reference planes for light-coding depth cameras. , 2015, , .		2
77	Robust tracking and lost target re-acquisition in video sequences using a combined color-gradient orientations based particle filter and covariance matching. , 2015, , .		2
78	The truncated transmission of spinal codes with imperfect feedback in block-fading channel. , 2015, , .		2
79	High throughput GPU polar decoder. , 2016, , .		2
80	Successive-cancellation list decoder of polar codes based on GPU. , 2017, , .		2
81	Gradient descent bit-flipping based on penalty factor for decoding LDPC codes over symmetric alpha-stable noise channels. , 2017, , .		2
82	A High-throughput Fine-grained Rate Adaptive Transmission Scheme for A LEO Satellite Communication System. , 2018, , .		2
83	Detecting the Number of Active Users in Coded Random Access Systems. , 2018, , .		2
84	Efficient Optimization Algorithms for Multi-User Beamforming With Superposition Coding. IEEE Transactions on Communications, 2018, 66, 5902-5915.	7.8	2
85	Fast Simplified Multi-Bit Successive-Cancellation List Decoding of Polar Codes and Implementation. , 2019, , .		2
86	Flexible and Simplified Multi-bit Successive-Cancellation List Decoding for Polar Codes. , 2019, , .		2
87	Performance Analysis of Rateless-Coded Non-Orthogonal Multiple Access over Nakagami-m Fading Channels with Delay Constrains. , 2020, , .		2
88	A Novel Post-Processing Method for Belief Propagation List Decoding of Polar Codes. IEEE Communications Letters, 2021, 25, 2468-2471.	4.1	2
89	Performance Analysis of NOMA Multicast Systems Based on Rateless Codes With Delay Constraints. IEEE Transactions on Wireless Communications, 2021, 20, 5003-5017.	9.2	2
90	Reliable and Energy-Efficient LEO Satellite Communication with IR-HARQ via Power Allocation. Sensors, 2022, 22, 3035.	3.8	2

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91	A Frame-Related Approach for Performance Improvement of MPE-FEC in DVB-H. IEEE Transactions on Broadcasting, 2011, 57, 888-894.	3.2	1
92	Kuhn-tucker conditions for nuclear norm optimization methods for interference alignment. , 2012, , .		1
93	FV polar coding for lossy compression with an improved exponent. , 2015, , .		1
94	A Method Combining Active Stereo with Global Matching Algorithm for Accurate Depth Extraction. , 2016, , .		1
95	Location Design of Multiple Cyclic Redundancy Checks for Polar Codes in Successive Cancellation List Decoding. , 2018, , .		1
96	Low Complexity Method for Channel-Dependent Construction of Polar Codes Using Partial Order. IEEE Access, 2018, 6, 67404-67414.	4.2	1
97	Depth extraction method with subpixel matching for lightâ€œcodingâ€œbased depth camera. IET Image Processing, 2018, 12, 1703-1712.	2.5	1
98	Antenna Configuration Method for RF Measurement Based on DOPs in Satellite Formation Flying. International Journal of Aerospace Engineering, 2018, 2018, 1-14.	0.9	1
99	Efficient GPUâ€œbased implementation for decoding nonâ€œbinary LDPC codes with layered and flooding schedules. Concurrency Computation Practice and Experience, 2018, 30, e4442.	2.2	1
100	Performance Analysis of Rateless-Coded Non-Orthogonal Multiple Access. , 2019, , .		1
101	Pose Determination from Multi-View Image using Deep Learning. , 2019, , .		1
102	LDPC for receive antennas selection in massive MiMo. , 2020, , .		1
103	DESA: Disparity Estimation With Surface Awareness. IEEE Signal Processing Letters, 2021, 28, 2028-2032.	3.6	1
104	An Energy Efficient Approach for Service Chaining Placement in Satellite Ground Station Networks. , 2021, , .		1
105	Asymmetric Linear Physical-Layer Network Coding. IEEE Communications Letters, 2021, 25, 3214-3218.	4.1	1
106	Design of segmented CRCâ€œaided spinal codes for IoT applications. IET Communications, 2020, 14, 3541-3548.	2.2	1
107	Novel First-one detector architecture applied in VLC. IEICE Electronics Express, 2009, 6, 403-406.	0.8	0
108	Comments on Equation (4) in "Single Frequency Networks in DTV" [Dec 05 413-422]. IEEE Transactions on Broadcasting, 2010, 56, 263-263.	3.2	0

#	ARTICLE	IF	CITATIONS
109	Achievable rates with lattice codes for a multicast channel with relays. , 2011, , .		0
110	Linear precoding in large scale MIMO under 3D channel model. , 2014, , .		0
111	A fast depth map coding method based on optimized modes decision. , 2015, , .		0
112	Optimization of AVS+ Software Decoder for High-definition Video. , 2016, , .		0
113	Grouping dynamic scheduling for LDPC codes in symmetric alpha-stable impulsive noise. , 2016, , .		0
114	An interference suppression strategy for satellite-borne AIS. , 2016, , .		0
115	Beamforming with superposition coding in multiple antenna satellite communications. , 2017, , .		0
116	List Estimation-aided Successive-Cancellation List Decoding of Polar Codes. , 2018, , .		0
117	Multipath mitigation method based on Gaussian mixture model in RF relative measurement. Chinese Journal of Aeronautics, 2018, 31, 2270-2279.	5.3	0
118	Decoding of Polar Code by Machine Learning. , 2019, , .		0
119	A Decentralized Hierarchical Key Management Scheme for Grid-Organized Wireless Sensor Networks (DHKM). , 2020, , .		0
120	CoopeRA: Cooperator Resource Allocation Algorithm based On Clustering and D2D Transmissions in LTE Heterogeneous Networks and 5G networks. , 2020, , .		0
121	An efficient network for category-level 6D object pose estimation. Signal, Image and Video Processing, 2021, 15, 1643-1651.	2.7	0
122	Reduced-Complexity Successive-Cancellation Decoding for Polar Codes on Channels With Insertions and Deletions. IEEE Transactions on Communications, 2022, 70, 45-58.	7.8	0
123	Design of Environmental backscatter tag antenna for 5G Internet of things. , 2020, , .		0