

Jun Lin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

781
citations

15
h-index

23
g-index

127
ext. papers

1,106
ext. citations

2.9
avg, IF

4.95
L-index

#	Paper	IF	Citations
89	Efficient Hardware Architectures for Deep Convolutional Neural Network. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1941-1953	3.9	61
88	Efficient Decoder Design for Nonbinary Quasicyclic LDPC Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 1071-1082	3.9	46
87	Accelerating Recurrent Neural Networks: A Memory-Efficient Approach. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2017 , 25, 2763-2775	2.6	39
86	Flexible LDPC Decoder Design for Multigigabit-per-Second Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2010 , 57, 116-124	3.9	36
85	An Efficient List Decoder Architecture for Polar Codes. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 23, 2508-2518	2.6	35
84	An Energy-Efficient Architecture for Binary Weight Convolutional Neural Networks. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2018 , 26, 280-293	2.6	34
83	An Efficient VLSI Architecture for Nonbinary LDPC Decoders. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2010 , 57, 51-55	3.5	27
82	A High-Speed and Low-Complexity Architecture for Softmax Function in Deep Learning 2018 ,		25
81	An Improved Gauss-Seidel Algorithm and Its Efficient Architecture for Massive MIMO Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1194-1198	3.5	22
80	Efficient list decoder architecture for polar codes 2014 ,		20
79	Low Complexity Message Passing Detection Algorithm for Large-Scale MIMO Systems. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 708-711	5.9	19
78	TIE 2019 ,		19
77	A Multimode Area-Efficient SCL Polar Decoder. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 24, 3499-3512	2.6	18
76	A reduced latency list decoding algorithm for polar codes 2014 ,		17
75	E-LSTM: An Efficient Hardware Architecture for Long Short-Term Memory. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2019 , 9, 280-291	5.2	16
74	A High Throughput List Decoder Architecture for Polar Codes. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 1-14	2.6	15
73	Efficient Shuffled Decoder Architecture for Nonbinary Quasi-Cyclic LDPC Codes. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2013 , 21, 1756-1761	2.6	15

72	Reduced complexity belief propagation decoders for polar codes 2015 ,		14
71	Evaluations on Deep Neural Networks Training Using Posit Number System. <i>IEEE Transactions on Computers</i> , 2021 , 70, 174-187	2.5	14
70	Efficient convolution architectures for convolutional neural network 2016 ,		13
69	Efficient Precision-Adjustable Architecture for Softmax Function in Deep Learning. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 3382-3386	3.5	11
68	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2014 , 22, 2649-2660	2.6	11
67	Efficient Soft Cancellation Decoder Architectures for Polar Codes. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2017 , 25, 87-99	2.6	11
66	A 124-Gb/s Decoder for Generalized Integrated Interleaved Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3174-3187	3.9	10
65	A Low-latency Sparse-Winograd Accelerator for Convolutional Neural Networks 2019 ,		8
64	An Improved Gradient Descent Bit-Flipping Decoder for LDPC Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3188-3200	3.9	8
63	Fine-Grained Bit-Flipping Decoding for LDPC Codes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 896-900	3.5	8
62	A Precision-Scalable Energy-Efficient Convolutional Neural Network Accelerator. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 3484-3497	3.9	7
61	Linearized Polynomial Interpolation and Its Applications. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 206-217	4.8	7
60	Design of High-Performance and Area-Efficient Decoder for 5G LDPC Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 879-891	3.9	7
59	Improved Fast-SSC-Flip Decoding of Polar Codes. <i>IEEE Communications Letters</i> , 2019 , 23, 950-953	3.8	6
58	Hardware-Oriented Compression of Long Short-Term Memory for Efficient Inference. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 984-988	3.2	6
57	An Efficient Convolution Core Architecture for Privacy-Preserving Deep Learning 2018 ,		6
56	Reduced-Complexity Decoders of Long Reed-Solomon Codes Based on Composite Cyclotomic Fourier Transforms. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 3920-3925	4.8	6
55	Hardware Accelerator for Multi-Head Attention and Position-Wise Feed-Forward in the Transformer 2020 ,		6

54	An Efficient and Flexible Accelerator Design for Sparse Convolutional Neural Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 2936-2949	3.9	6
53	Ultra-Fast Modular Multiplication Implementation for Isogeny-Based Post-Quantum Cryptography 2019 ,		6
52	Analysis and Design of a Large Dither Injection Circuit for Improving Linearity in Pipelined ADCs. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2019 , 27, 2008-2020	2.6	5
51	Modified GII-BCH Codes for Low-Complexity and Low-Latency Encoders. <i>IEEE Communications Letters</i> , 2019 , 23, 785-788	3.8	5
50	An ultra-long FFT architecture implemented in a reconfigurable application specified processor. <i>IEICE Electronics Express</i> , 2016 , 13, 20160504-20160504	0.5	5
49	Parameter-Free β -Box Decoding of LDPC Codes. <i>IEEE Communications Letters</i> , 2018 , 22, 1318-1321	3.8	5
48	LDPC decoder design for high rate wireless personal area networks. <i>IEEE Transactions on Consumer Electronics</i> , 2009 , 55, 455-460	4.8	5
47	Information Storage Bit-Flipping Decoder for LDPC Codes. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020 , 28, 2464-2468	2.6	5
46	Intra-layer nonuniform quantization of convolutional neural network 2016 ,		5
45	Hardware Implementation of Improved Fast-SSC-Flip Decoder for Polar Codes 2019 ,		5
44	Optimized Trellis-Based Min-Max Decoder for NB-LDPC Codes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 57-61	3.5	5
43	A 21.66 Gbps Nonbinary LDPC Decoder for High-Speed Communications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 226-230	3.5	4
42	A High-Speed Successive-Cancellation Decoder for Polar Codes Using Approximate Computing. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 227-231	3.5	4
41	FPAP: A Folded Architecture for Energy-Quality Scalable Convolutional Neural Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 288-301	3.9	4
40	A New Probabilistic Gradient Descent Bit Flipping Decoder for LDPC Codes 2019 ,		4
39	Methodology for Efficient Reconfigurable Architecture of Generative Neural Network 2019 ,		4
38	Low-complexity detection algorithms based on matrix partition for massive MIMO 2017 ,		4
37	Energy efficient SVM classifier using approximate computing 2017 ,		4

36	Training Deep Neural Networks Using Posit Number System 2019 ,		4
35	Fast-ABC: A Fast Architecture for Bottleneck-Like Based Convolutional Neural Networks 2019 ,		4
34	USCA: A Unified Systolic Convolution Array Architecture for Accelerating Sparse Neural Network 2019 ,		3
33	Multi-Layer Generalized Integrated Interleaved Codes. <i>IEEE Communications Letters</i> , 2020 , 24, 1880-1884.8		3
32	Optimized sorting network for successive cancellation list decoding of polar codes. <i>IEICE Electronics Express</i> , 2017 , 14, 20170735-20170735	0.5	3
31	A high throughput belief propagation decoder architecture for polar codes 2016 ,		3
30	Background Calibration of Comparator Offsets in SHA-Less Pipelined ADCs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 357-361	3.5	3
29	A Hardware-Oriented and Memory-Efficient Method for CTC Decoding. <i>IEEE Access</i> , 2019 , 7, 120681-120694	3.4	3
28	Low-Latency Hardware Accelerator for Improved Engle-Granger Cointegration in Pairs Trading. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 2911-2924	3.9	3
27	Fast and Low-Complexity Decoding Algorithm and Architecture for Quadruple-Error-Correcting RS codes 2018 ,		3
26	A reduced complexity decoding algorithm for NB-LDPC codes 2017 ,		2
25	Design and implementation of high performance matrix inversion based on reconfigurable processor. <i>IEICE Electronics Express</i> , 2016 , 13, 20160579-20160579	0.5	2
24	FPAP: A Folded Architecture for Efficient Computing of Convolutional Neural Networks 2018 ,		2
23	An Efficient Post-Processor for Lowering the Error Floor of LDPC Codes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 397-401	3.5	2
22	A Novel Iterative Reliability-Based Majority-Logic Decoder for NB-LDPC Codes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1399-1403	3.5	2
21	An Improved Reliability-Based Decoding Algorithm for NB-LDPC Codes. <i>IEEE Communications Letters</i> , 2021 , 25, 1153-1157	3.8	2
20	Counter Random Gradient Descent Bit-Flipping Decoder for LDPC Codes 2021 ,		2
19	Efficient Software Implementation of the SIKE Protocol Using New Data Representation. <i>IEEE Transactions on Computers</i> , 2021 , 1-1	2.5	2

18	Fast Modular Multipliers for Supersingular Isogeny-Based Post-Quantum Cryptography. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 29, 359-371	2.6	2
17	A Low-Complexity Massive MIMO Detection Algorithm Based on Matrix Partition 2018 ,		2
16	Efficient T-EMS Based Decoding Algorithms for High-Order LDPC Codes. <i>IEEE Access</i> , 2019 , 7, 50980-50993	3.3	1
15	A Novel Low-Complexity Joint Coding and Decoding Algorithm for NB-LDPC Codes 2019 ,		1
14	A New Fast-SSC-Flip Decoding of Polar Codes 2019 ,		1
13	Reduced complexity message passing detection algorithm in large-scale MIMO systems 2017 ,		1
12	A hybrid partial sum computation unit architecture for list decoders of polar codes 2015 ,		1
11	A Proximal Iteratively Reweighted Approach for Efficient Network Sparsification. <i>IEEE Transactions on Computers</i> , 2020 , 1-1	2.5	1
10	Hardware Accelerator for Engle-Granger Cointegration in Pairs Trading 2020 ,		1
9	Improved Soft-Assisted Iterative Bounded Distance Decoding for Product Codes 2019 ,		1
8	DynExit: A Dynamic Early-Exit Strategy for Deep Residual Networks 2019 ,		1
7	Hybrid Preconditioned CG Detection with Sequential Update for Massive MIMO Systems 2019 ,		1
6	A Low-Complexity Decoder for Turbo Product Codes Based on Extended Hamming Codes 2018 ,		1
5	Comparison between Generalized Integrated Interleaved Codes and Generalized Error Location Codes 2018 ,		1
4	A Stage-Combined Belief Propagation Decoder for Polar Codes. <i>Journal of Signal Processing Systems</i> , 2018 , 90, 687-694	1.4	0
3	An access pattern based adaptive mapping function for GPGPU scratchpad memory. <i>IEICE Electronics Express</i> , 2017 , 14, 20170373-20170373	0.5	
2	A New Clock Phase Calibration Method in High-Speed and High-Resolution DACs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 332-336	3.5	
1	Efficient Error Control Decoder Architectures for Noncoherent Random Linear Network Coding. <i>Journal of Signal Processing Systems</i> , 2014 , 76, 195-209	1.4	

