

# Keshab K Parhi

## List of Publications by Year in Descending Order

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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.

208  
papers

3,289  
citations

29  
h-index

49  
g-index

234  
ext. papers

4,370  
ext. citations

3.1  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
208	Applicability of Hyperdimensional Computing to Seizure Detection. <i>IEEE Open Journal of Circuits and Systems</i> , <b>2022</b> , 3, 59-71	1.7	0
207	A low-power twiddle factor addressing architecture for split-radix FFT processor. <i>Microelectronics Journal</i> , <b>2021</b> , 117, 105276	1.8	2
206	Teaching Digital Signal Processing by Partial Flipping, Active Learning, and Visualization: Keeping Students Engaged With Blended Teaching. <i>IEEE Signal Processing Magazine</i> , <b>2021</b> , 38, 20-29	9.4	0
205	Reduced-Complexity Modular Polynomial Multiplication for R-LWE Cryptosystems <b>2021</b> ,		1
204	Seizure Detection Using Power Spectral Density via Hyperdimensional Computing <b>2021</b> ,		1
203	Predicting Biological Gender and Intelligence From fMRI via Dynamic Functional Connectivity. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 815-825	5	5
202	Correction to Brain-Inspired Computing: Models and Architectures $\square$ <i>IEEE Open Journal of Circuits and Systems</i> , <b>2021</b> , 2, 291-291	1.7	
201	Region-Level Functional and Effective Network Analysis of Human Brain During Cognitive Task Engagement. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2021</b> , 29, 1651-1660	4.8	1
200	Classification of Adolescent Major Depressive Disorder Via Static and Dynamic Connectivity. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 2604-2614	7.2	4
199	Graph-Theoretic Properties of Sub-Graph Entropy. <i>IEEE Signal Processing Letters</i> , <b>2021</b> , 28, 135-139	3.2	
198	Biological Gender Classification from fMRI via Hyperdimensional Computing <b>2021</b> ,		1
197	Spectral Features Based Decoding of Task Engagement: The Role of Theta and High Gamma Bands in Cognitive Control. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 6062-6065	0.9	
196	Decoding Human Cognitive Control Using Functional Connectivity of Local Field Potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 451-454	0.9	0
195	Effect of Modulating fMRI Time-Series on Fluid Ability and Fluid Intelligence for Healthy Humans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 6070-6073	0.9	
194	Probabilistic Hardware Trojan Attacks on Multiple Layers of Reconfigurable Network Infrastructure. <i>Journal of Hardware and Systems Security</i> , <b>2020</b> , 4, 343-360	1.6	1
193	Molecular and DNA Artificial Neural Networks via Fractional Coding. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2020</b> , 14, 490-503	5.1	9
192	Classification Using Hyperdimensional Computing: A Review. <i>IEEE Circuits and Systems Magazine</i> , <b>2020</b> , 20, 30-47	3.2	23

191	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 5429-5442	3.9	3
190	Homogeneous and Heterogeneous Feed-Forward XOR Physical Unclonable Functions. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2020</b> , 15, 2485-2498	8	22
189	Sub-graph entropy based network approaches for classifying adolescent obsessive-compulsive disorder from resting-state functional MRI. <i>NeuroImage: Clinical</i> , <b>2020</b> , 26, 102208	5.3	8
188	Fast 2D Convolution Algorithms for Convolutional Neural Networks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 1678-1691	3.9	12
187	Brain-Inspired Computing: Models and Architectures. <i>IEEE Open Journal of Circuits and Systems</i> , <b>2020</b> , 1, 185-204	1.7	5
186	M3U: Minimum Mean Minimum Uncertainty Feature Selection for Multiclass Classification. <i>Journal of Signal Processing Systems</i> , <b>2020</b> , 92, 9-22	1.4	2
185	Ranking Regions, Edges and Classifying Tasks in Functional Brain Graphs by Sub-Graph Entropy. <i>Scientific Reports</i> , <b>2019</b> , 9, 7628	4.9	10
184	Computing Radial Basis Function Support Vector Machine using DNA via Fractional Coding <b>2019</b> ,		3
183	RETOUCH: The Retinal OCT Fluid Detection and Segmentation Benchmark and Challenge. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 1858-1874	11.7	60
182	Architecture Optimization and Performance Comparison of Nonce-Misuse-Resistant Authenticated Encryption Algorithms. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2019</b> , 27, 1053-1066	2.6	3
181	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2019</b> , 31, 1750-1764	4.2	8
180	Discriminative Ratio of Spectral Power and Relative Power Features Derived via Frequency-Domain Model Ratio With Application to Seizure Prediction. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2019</b> , 13, 645-657	5.1	8
179	Predicting Male vs. Female from Task-fMRI Brain Connectivity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 4089-4092	0.9	1
178	ProTro: A Probabilistic Counter Based Hardware Trojan Attack on FPGA Based MACSec Enabled Ethernet Switch. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 159-175	0.9	2
177	Training DNA Perceptrons via Fractional Coding <b>2019</b> ,		2
176	Classification of Major Depressive Disorder from Resting-State fMRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 3511-3514	0.9	5
175	. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2019</b> , 7, 44-59	4.1	29
174	A Physical Unclonable Function based on Capacitor Mismatch in a Charge-Redistribution SAR-ADC <b>2018</b> ,		2

173	Function-specific and Enhanced Brain Structural Connectivity Mapping via Joint Modeling of Diffusion and Functional MRI. <i>Scientific Reports</i> , <b>2018</b> , 8, 4741	4.9	28
172	Linear-Phase Lattice FIR Digital Filter Architectures Using Stochastic Logic. <i>Journal of Signal Processing Systems</i> , <b>2018</b> , 90, 791-803	1.4	5
171	Canonic Composite Length Real-Valued FFT. <i>Journal of Signal Processing Systems</i> , <b>2018</b> , 90, 1401-1414	1.4	1
170	Key-Based Dynamic Functional Obfuscation of Integrated Circuits Using Sequentially Triggered Mode-Based Design. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2018</b> , 13, 79-93	8	18
169	Low-Energy Architectures of Linear Classifiers for IoT Applications using Incremental Precision and Multi-Level Classification <b>2018</b> ,		1
168	Computing Mathematical Functions using DNA via Fractional Coding. <i>Scientific Reports</i> , <b>2018</b> , 8, 8312	4.9	17
167	Incremental-Precision Based Feature Computation and Multi-Level Classification for Low-Energy Internet-of-Things. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2018</b> , 8, 822-835	5.2	8
166	Fully Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images With Diabetic Macular Edema Using Neutrosophic Sets and Graph Algorithms. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 989-1001	5	42
165	A Serial Commutator Fast Fourier Transform Architecture for Real-Valued Signals. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 1693-1697	3.5	10
164	Anatomical Biomarkers for Adolescent Major Depressive Disorder from Diffusion Weighted Imaging using SVM Classifier. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 2710-2713	0.9	6
163	OCT Fluid Segmentation using Graph Shortest Path and Convolutional Neural Network. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 3426-3429	0.9	10
162	Classifying Treated vs. Untreated MDD Adolescents from Anatomical Connectivity using Nonlinear SVM. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 1-4	0.9	2
161	Biomarkers for Adolescent MDD from Anatomical Connectivity and Network Topology Using Diffusion MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 1152-1155	0.9	1
160	Stochastic Logic Implementations of Polynomials With All Positive Coefficients by Expansion Methods. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 1698-1702	3.5	5
159	Reliable PUF-Based Local Authentication With Self-Correction. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 201-213	2.5	25
158	LLR-Based Successive-Cancellation List Decoder for Polar Codes With Multibit Decision. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2017</b> , 64, 21-25	3.5	21
157	Secure and Reliable XOR Arbiter PUF Design <b>2017</b> ,		32
156	Computing Polynomials Using Unipolar Stochastic Logic. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2017</b> , 13, 1-30	1.7	9

155	Computing Polynomials with Positive Coefficients using Stochastic Logic by Double-NAND Expansion <b>2017</b> ,		10
154	FPGA implementation and comparison of AES-GCM and Deoxys authenticated encryption schemes <b>2017</b> ,		12
153	Functional encryption of integrated circuits by key-based hybrid obfuscation <b>2017</b> ,		2
152	Performance comparison of AES-GCM-SIV and AES-GCM algorithms for authenticated encryption on FPGA platforms <b>2017</b> ,		5
151	<b>2017</b> ,		7
150	Canonic FFT flow graphs for real-valued even/odd symmetric inputs. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2017</b> , 2017,	1.9	1
149	Extraction of common task signals and spatial maps from group fMRI using a PARAFAC-based tensor decomposition technique <b>2017</b> ,		4
148	Chemical Reaction Networks for Computing Polynomials. <i>ACS Synthetic Biology</i> , <b>2017</b> , 6, 76-83	5.7	27
147	Fully-automated segmentation of fluid regions in exudative age-related macular degeneration subjects: Kernel graph cut in neutrosophic domain. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186949	3.7	22
146	Machine learning classifiers using stochastic logic <b>2016</b> ,		8
145	Computing Complex Functions using Factorization in Unipolar Stochastic Logic <b>2016</b> ,		5
144	Classification of obsessive-compulsive disorder from resting-state fMRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 3606-3609	0.9	15
143	Low-Complexity Seizure Prediction From iEEG/sEEG Using Spectral Power and Ratios of Spectral Power. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2016</b> , 10, 693-706	5.1	112
142	Improved BER Performance With Rotated Head Array and 2-D Detector in Two-Dimensional Magnetic Recording. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-6	2	2
141	Network analysis of functional brain connectivity in borderline personality disorder using resting-state fMRI. <i>NeuroImage: Clinical</i> , <b>2016</b> , 11, 302-315	5.3	46
140	Synthesis of correlated bit streams for stochastic computing <b>2016</b> ,		3
139	Computing hyperbolic tangent and sigmoid functions using stochastic logic <b>2016</b> ,		6
138	Seizure prediction using long-term fragmented intracranial canine and human EEG recordings <b>2016</b> ,		2

137	Belief propagation decoding of polar codes using stochastic computing <b>2016</b> ,		14
136	Data-Canonic Real FFT Flow-Graphs for Composite Lengths <b>2016</b> ,		1
135	Computing RBF Kernel for SVM Classification Using Stochastic Logic <b>2016</b> ,		6
134	. <i>IEEE Transactions on Signal Processing</i> , <b>2016</b> , 64, 3705-3718	4.8	31
133	Abnormal Neural Oscillations in Schizophrenia Assessed by Spectral Power Ratio of MEG During Word Processing. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2016</b> , 24, 1148-1158	4.8	6
132	Low-Latency Successive-Cancellation List Decoders for Polar Codes With Multibit Decision. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2015</b> , 23, 2268-2280	2.6	60
131	Iterative Vessel Segmentation of Fundus Images. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 1738-49	5	170
130	An obfuscated radix-2 real FFT architecture <b>2015</b> ,		3
129	Successive cancellation decoding of polar codes using stochastic computing <b>2015</b> ,		27
128	Fault-tolerant ripple-carry binary adder using partial triple modular redundancy (PTMR) <b>2015</b> ,		6
127	Serial and interleaved architectures for computing real FFT <b>2015</b> ,		7
126	Lattice FIR digital filter architectures using stochastic computing <b>2015</b> ,		17
125	Early Seizure Detection Using Neuronal Potential Similarity: A Generalized Low-Complexity and Robust Measure. <i>International Journal of Neural Systems</i> , <b>2015</b> , 25, 1550019	6.2	22
124	Markov chain computations using molecular reactions <b>2015</b> ,		9
123	Joint brain connectivity estimation from diffusion and functional MRI data <b>2015</b> ,		2
122	Obfuscating DSP Circuits via High-Level Transformations. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2015</b> , 23, 819-830	2.6	52
121	Canonic real-valued radix-2n FFT computations <b>2015</b> ,		1
120	Seizure prediction using cross-correlation and classification <b>2015</b> ,		1

119	Seizure prediction using polynomial SVM classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 5748-51</i>	0.9	17
118	Seizure detection using regression tree based feature selection and polynomial SVM classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 6578-81</i>	0.9	15
117	Molecular Sensing and Computing Systems. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 249-264</i>	2.3	13
116	Architectures for stochastic normalized and modified lattice IIR filters <b>2015,</b>		6
115	Low-Complexity Welch Power Spectral Density Computation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 172-182</i>	3.9	44
114	Latency Analysis and Architecture Design of Simplified SC Polar Decoders. <i>IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 115-119</i>	3.5	25
113	Low-Latency Successive-Cancellation Polar Decoder Architectures Using 2-Bit Decoding. <i>IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1241-1254</i>	3.9	62
112	<b>2014,</b>		27
111	Interleaved successive cancellation polar decoders <b>2014,</b>		2
110	Architectures for polar BP decoders using folding <b>2014,</b>		15
109	Early Stopping Criteria for Energy-Efficient Low-Latency Belief-Propagation Polar Code Decoders. <i>IEEE Transactions on Signal Processing, 2014, 62, 6496-6506</i>	4.8	129
108	Protecting DSP circuits through obfuscation <b>2014,</b>		4
107	Seizure detection using wavelet decomposition of the prediction error signal from a single channel of intra-cranial EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 4443-6</i>	0.9	7
106	Two-Dimensional Magnetic Recording Using a Rotated Head Array and LDPC Code Decoding. <i>IEEE Transactions on Magnetics, 2014, 50, 1-4</i>	2	1
105	Successive cancellation list polar decoder using log-likelihood ratios <b>2014,</b>		15
104	Algorithm and architecture for hybrid decoding of polar codes <b>2014,</b>		5
103	<b>2014,</b>		5
102	Robust and low complexity algorithms for seizure detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4447-50</i>	0.9	5

101	Classification of borderline personality disorder based on spectral power of resting-state fMRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 5036-9</i>	0.9	8
100	Asynchronous discrete-time signal processing with molecular reactions <b>2014,</b>		9
99	Impulse Noise Correction in OFDM Systems. <i>Journal of Signal Processing Systems, 2014, 74, 245-262</i>	1.4	2
98	FFT Architectures for Real-Valued Signals Based on Radix- $2^3$ and Radix- $2^4$ Algorithms. <i>IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 2422-2430</i>	3.9	34
97	Hierarchical Folding and Synthesis of Iterative Data Flow Graphs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 597-601</i>	3.5	7
96	Multidimensional analysis of the abnormal neural oscillations associated with lexical processing in schizophrenia. <i>Clinical EEG and Neuroscience, 2013, 44, 135-43</i>	2.3	19
95	Classification of single-trial MEG during sentence processing for automated schizophrenia screening <b>2013,</b>		2
94	Comments on "Low-energy CSMT carry generators and binary adders". <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 791-791</i>	2.6	2
93	Discrete-time signal processing with DNA. <i>ACS Synthetic Biology, 2013, 2, 245-54</i>	5.7	41
92	Pipelined Architectures for Real-Valued FFT and Hermitian-Symmetric IFFT With Real Datapaths. <i>IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 507-511</i>	3.5	28
91	An In-Place FFT Architecture for Real-Valued Signals. <i>IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 652-656</i>	3.5	33
90	Design and Optimization of Multiplierless FIR Filters Using Sub-Threshold Circuits. <i>Journal of Signal Processing Systems, 2013, 70, 259-274</i>	1.4	0
89	<b>2013,</b>		25
88	Architectures for digital filters using stochastic computing <b>2013,</b>		46
87	Architecture optimizations for BP polar decoders <b>2013,</b>		59
86	Low-energy architectures for Support Vector Machine computation <b>2013,</b>		5
85	Automated localization of cysts in diabetic macular edema using optical coherence tomography images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 1426-9</i>	0.9	20
84	Optimized Joint Timing Synchronization and Channel Estimation for OFDM Systems. <i>IEEE Wireless Communications Letters, 2012, 1, 149-152</i>	5.9	12



83	Verifying equivalence of digital signal processing circuits <b>2012</b> ,		9
82	Reduced-latency SC polar decoder architectures <b>2012</b> ,		47
81	A Network-Efficient Nonbinary QC-LDPC Decoder Architecture. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2012</b> , 59, 1359-1371	3.9	5
80	Digital Signal Processing With Molecular Reactions. <i>IEEE Design and Test of Computers</i> , <b>2012</b> , 29, 21-31		20
79	Pipelined Parallel FFT Architectures via Folding Transformation. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2012</b> , 20, 1068-1081	2.6	97
78	Static and dynamic information derived from source and system features for person recognition from humming. <i>International Journal of Speech Technology</i> , <b>2012</b> , 15, 393-406	1.3	1
77	Screening fundus images for diabetic retinopathy <b>2012</b> ,		7
76	Low complexity algorithm for seizure prediction using Adaboost. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 1061-4	0.9	21
75	Architecture Optimizations for the RSA Public Key Cryptosystem: A Tutorial. <i>IEEE Circuits and Systems Magazine</i> , <b>2011</b> , 11, 24-34	3.2	13
74	High-Speed Parallel Architectures for Linear Feedback Shift Registers. <i>IEEE Transactions on Signal Processing</i> , <b>2011</b> , 59, 4459-4469	4.8	38
73	Power Reduction in Frequency-Selective FIR Filters Under Voltage Overscaling. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2011</b> , 1, 343-356	5.2	9
72	Seizure prediction with spectral power of EEG using cost-sensitive support vector machines. <i>Epilepsia</i> , <b>2011</b> , 52, 1761-70	6.4	268
71	Secure Variable Data Rate Transmission. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2011</b> , 58, 100-104	3.5	1
70	Reconfigurable architectures for silicon Physical Unclonable Functions <b>2011</b> ,		15
69	Synchronous sequential computation with molecular reactions <b>2011</b> ,		23
68	Asynchronous computation with molecular reactions <b>2011</b> ,		3
67	Seizure prediction with spectral power of time/space-differential EEG signals using cost-sensitive support vector machine <b>2010</b> ,		10
66	Development of TEO phase for speaker recognition <b>2010</b> ,		10

65	Parallel - pipelined radix-22 FFT architecture for real valued signals <b>2010</b> ,		3
64	Novel Variable length Teager Energy Based features for person recognition from their hum <b>2010</b> ,		7
63	Efficient parallel VLSI architecture for linear feedback shift registers <b>2010</b> ,		11
62	Computation Error Analysis in Digital Signal Processing Systems With Overscaled Supply Voltage. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2010</b> , 18, 517-526	2.6	47
61	Min-Sum Decoder Architectures With Reduced Word Length for LDPC Codes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 105-115	3.9	40
60	Digital signal processing with biomolecular reactions <b>2010</b> ,		1
59	A synthesis flow for digital signal processing with biomolecular reactions <b>2010</b> ,		9
58	Underdetermined blind source separation based on Continuous Density Hidden Markov Models <b>2010</b> ,		2
57	Low-Complexity Switch Network for Reconfigurable LDPC Decoders. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2010</b> , 18, 85-94	2.6	36
56	GPU accelerated elliptic curve cryptography in GF(2 <sup>m</sup> ) <b>2010</b> ,		10
55	Fast Reconfigurable Elliptic Curve Cryptography Acceleration for GF(2 <sup>m</sup> ) on 32 bit Processors. <i>Journal of Signal Processing Systems</i> , <b>2010</b> , 60, 31-45	1.4	6
54	Probabilistic Spherical Detection and VLSI Implementation for Multiple-Antenna Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2009</b> , 56, 685-698	3.9	7
53	Noise reduction for low-power broadband filtering <b>2009</b> ,		4
52	Sparseness-Controlled Adaptive Tap algorithms for partial update adaptive filters <b>2009</b> ,		2
51	Low Complexity Decoder Architecture for Low-Density Parity-Check Codes. <i>Journal of Signal Processing Systems</i> , <b>2009</b> , 56, 217-228	1.4	1
50	Low-Latency Low-Complexity Architectures for Viterbi Decoders. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2009</b> , 56, 2315-2324	3.9	4
49	Low-power frequency selective filtering <b>2009</b> ,		5
48	A Pipelined FFT Architecture for Real-Valued Signals. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2009</b> , 56, 2634-2643	3.9	80

47	A Low-Complexity Hybrid LDPC Code Encoder for IEEE 802.3an (10GBase-T) Ethernet. <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 4085-4094	4.8	17
46	Novel FEXT Cancellation and Equalization for High Speed Ethernet Transmission. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2009</b> , 56, 1272-1285	3.9	7
45	Multi-delay block frequency domain adaptive filters with sparse partial subblock update <b>2009</b> ,		1
44	Sparse severe error removal in OFDM demodulators for erasure channels <b>2009</b> ,		1
43	High speed VLSI architecture for general linear feedback shift register (LFSR) structures <b>2009</b> ,		7
42	High-Speed VLSI Implementation of 2-D Discrete Wavelet Transform. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 393-403	4.8	47
41	Area efficient controller design of barrel shifters for reconfigurable LDPC decoders <b>2008</b> ,		7
40	Hardware Efficient Low-Latency Architecture for High Throughput Rate Viterbi Decoders. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2008</b> , 55, 1254-1258	3.5	9
39	Low-Complexity Echo and NEXT Cancellers for High-Speed Ethernet Transceivers. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2008</b> , 55, 2827-2840	3.9	4
38	Further cost reduction of adaptive echo and next cancellers for high-speed Ethernet transceivers <b>2008</b> ,		1
37	Minimal complexity low-latency architectures for Viterbi decoders <b>2008</b> ,		1
36	High-speed implementation of Smith-Waterman algorithm for DNA sequence scanning in VLSI <b>2008</b> ,		1
35	Design of Parallel Tomlinson-Harashima Precoders. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2008</b> , 55, 447-451	3.5	3
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