Gerald E Sobelman

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4509721/publications.pdf

Version: 2024-02-01

687220 752573 68 488 13 20 citations h-index g-index papers 68 68 68 454 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	An Efficient CNN Accelerator for Low-Cost Edge Systems. Transactions on Embedded Computing Systems, 2022, 21, 1-20.	2.1	3
2	Hybrid Beamforming/Combining for Millimeter Wave MIMO: A Machine Learning Approach. IEEE Transactions on Vehicular Technology, 2020, 69, 11353-11368.	3.9	25
3	Memory Segment Matching Network Based Image Geo-Localization. IEEE Access, 2019, 7, 77448-77459.	2.6	2
4	Hardware Efficient Massive MIMO Detector Based on the Monte Carlo Tree Search Method. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 523-533.	2.7	8
5	Stochastic computing implementation of trigonometric and hyperbolic functions. , 2017, , .		2
6	A low complexity SCMA detector based on stochastic computation. , 2017, , .		5
7	Improved design of digital 1-D and 2-D notch filters using general feedback structure. , 2016, , .		3
8	An Intra-Iterative Interference Cancellation Detector for Large-Scale MIMO Communications Based on Convex Optimization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 2062-2072.	3.5	27
9	Reduced complexity look-up table based π-rotation LDPC decoder. , 2016, , .		O
10	An SVA hardware monitor with off-line replay. , 2016, , .		0
11	A low-complexity FFT Processor using two-dimensional algebraic integer encoding. , 2016, , .		1
12	Sparse Code Multiple Access Decoding Based on a Monte Carlo Markov Chain Method. IEEE Signal Processing Letters, 2016, 23, 639-643.	2.1	23
13		2.1	23
	Processing Letters, 2016, 23, 639-643.	2,1	
13	Processing Letters, 2016, 23, 639-643. Network-coding-based distributed relay scheme for PLC networks. , 2015, , .	2.1	0
13	Processing Letters, 2016, 23, 639-643. Network-coding-based distributed relay scheme for PLC networks., 2015, , . A low complexity algorithm and architecture for MIMO detection without QR decomposition., 2015, , . Stochastic Iterative MIMO Detection System: Algorithm and Hardware Design. IEEE Transactions on		0
13 14 15	Processing Letters, 2016, 23, 639-643. Network-coding-based distributed relay scheme for PLC networks., 2015,,. A low complexity algorithm and architecture for MIMO detection without QR decomposition., 2015,,. Stochastic Iterative MIMO Detection System: Algorithm and Hardware Design. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1205-1214.		0 0 19

#	Article	IF	CITATIONS
19	Scaling, Offset, and Balancing Techniques in FFT-Based BP Nonbinary LDPC Decoders. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 277-281.	2.2	5
20	A novel fixed-complexity soft-output MIMO detector using parallel bidirectional scheme. , 2013, , .		2
21	Iterative Computation of FIR MIMO MMSE-DFE With Flexible Complexity-Performance Tradeoff. IEEE Transactions on Signal Processing, 2013, 61, 2394-2404.	3.2	5
22	Low complexity state metric compression technique in turbo decoder. IEICE Electronics Express, 2013, 10, 20130485-20130485.	0.3	1
23	A novel hardware-oriented decoding algorithm for non-binary LDPC codes. , 2012, , .		1
24	Generic Mixed-Radix FFT Pruning. IEEE Signal Processing Letters, 2012, 19, 167-170.	2.1	21
25	General lattice wave digital filter with phase compensation scheme. , 2011, , .		1
26	FFT implementation with Multi-operand floating point units. , 2011, , .		2
27	Wideband spectrum sensing using the all-phase FFT. , 2011, , .		2
28	A Reduced-Complexity Architecture for LDPC Layered Decoding Schemes. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 1099-1103.	2.1	40
29	A high-throughput LDPC decoder architecture for high-rate WPAN systems. , 2011, , .		0
30	PLL performance comparison with application to spread spectrum clock generator design. Analog Integrated Circuits and Signal Processing, 2010, 63, 197-216.	0.9	14
31	Frequency domain adaptive tap partial update adaptive algorithm for network echo cancellation. , $2010, \ldots$		1
32	QoS-Constrained MIMO Subchannel Allocation in SDR Using the Tunable Channel Decomposition. , 2010, , .		1
33	Bus Energy Consumption for Multilevel Signals. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 64-71.	3.5	9
34	Sparse LMS with segment zero attractors for adaptive estimation of sparse signals., 2010,,.		10
35	Reconfigurable MIMO transceiver design using the tunable channel decomposition. , 2010, , .		0
36	Memory size reduction for LDPC layered decoders. , 2010, , .		0

#	Article	IF	CITATIONS
37	Novel and flexible Complex Coefficient Linear phase IIR filters for communications. , 2010, , .		O
38	Implementations of FFT and STBD for MIMO-OFDM on a Reconfigurable Baseband Platform. IEICE Transactions on Information and Systems, 2010, E93-D, 811-821.	0.4	0
39	Semi-distributed scheduling for flexible codeword assignment in a CDMA Network-on-Chip., 2009,,.		1
40	Software Defined Radio architecture using a multicasting Network-on-Chip. , 2009, , .		2
41	Reed-Solomon Codec for a Reconfigurable Baseband Processing Platform. , 2009, , .		1
42	Sparseness-Controlled Adaptive Tap algorithms for partial update adaptive filters. , 2009, , .		4
43	Gradient-based target localization in robotic sensor networks. Pervasive and Mobile Computing, 2009, 5, 37-48.	2.1	9
44	Mesh-star Hybrid NoC architecture with CDMA switch. , 2009, , .		12
45	Architectures for multi-gigabit wire-linked clock and data recovery. IEEE Circuits and Systems Magazine, 2008, 8, 45-57.	2.6	61
46	Adaptive quantization in min-sum based irregular LDPC decoder. , 2008, , .		7
47	An Efficient Multi-protocol RFID Interrogator Baseband Processor based on a Reconfigurable Architecture. , 2008, , .		1
48	Flexible LDPC decoder architecture for high-throughput applications. , 2008, , .		9
49	Optimality of Bus-Invert Coding. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1134-1138.	2.2	5
50	A heterogeneous reconfigurable baseband architecture for wireless LAN transceivers. , 2008, , .		2
51	Cscan: A Correlation-based Scheduling Algorithm for Wireless Sensor Networks. , 2008, , .		5
52	Reconfigurable baseband processing platform for communication systems. , 2008, , .		3
53	Bandwidth-reusable CDMA NoC with flexible codeword assignment. , 2007, , .		2
54	MIMO Transceiver Design Based on a Modified Geometric Mean Decomposition. , 2007, , .		6

#	Article	IF	CITATIONS
55	Multi-level signaling for energy-efficient on-chip interconnects., 2007,,.		O
56	High Speed Look-Ahead LMS Detector for MIMO Systems. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	0
57	FPGA-Based Design of a Pulsed-OFDM System. , 2006, , .		4
58	Low-Power Bus Transform Coding for Multilevel Signals. , 2006, , .		7
59	SPC08-5: Noise Model Analysis of Optimized Mixed-Radix Structures for Pulsed OFDM. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	1
60	VLSI DESIGN OF DIGIT-SERIAL FPGA ARCHITECTURE. Journal of Circuits, Systems and Computers, 2004, 13, 17-52.	1.0	O
61	Performance evaluation and optimal design for FPGA-based digit-serial DSP functions. Computers and Electrical Engineering, 2003, 29, 357-377.	3.0	16
62	FPGA-based digit-serial CSD FIR filter for image signal format conversion. Microelectronics Journal, 2002, 33, 501-508.	1.1	19
63	New XOR/XNOR and full adder circuits for low voltage, low power applications. Microelectronics Journal, 1998, 29, 509-517.	1.1	16
64	A comparative study of glitch-free true single-phase clocked D flip-flop circuits at low supply voltage. Microelectronics Journal, 1998, 29, 1025-1031.	1.1	5
65	Switch-level Differential Fault Simulation of MOS VLSI Circuits. VLSI Design, 1996, 4, 217-229.	0.5	O
66	Cluster Partitioning Techniques for Data Path Synthesis. VLSI Design, 1994, 1, 181-192.	0.5	1
67	Strong-coupling expansions for multidimensional Ising andO(n)spin systems. Physical Review B, 1981, 24, 1493-1499.	1.1	3
68	Asymptotic estimates and borel resummation for a doubly anharmonic oscillator. Physical Review D, 1979, 19, 3754-3767.	1.6	20