

Jose G Delgado-Frias

List of Publications by Year in descending order

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102
papers

809
citations

623734

14
h-index

713466

21
g-index

104
all docs

104
docs citations

104
times ranked

436
citing authors

#	ARTICLE	IF	CITATIONS
1	Sigmoid generators for neural computing using piecewise approximations. IEEE Transactions on Computers, 1996, 45, 1045-1049.	3.4	82
2	Elementary function generators for neural-network emulators. IEEE Transactions on Neural Networks, 2000, 11, 1438-1449.	4.2	31
3	FPGA schemes for minimizing the power-throughput trade-off in executing the Advanced Encryption Standard algorithm. Journal of Systems Architecture, 2010, 56, 116-123.	4.3	31
4	A hybrid wave pipelined network router. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1764-1772.	0.1	28
5	Schemes for eliminating transient-width clock overhead from SET-tolerant memory-based systems. IEEE Transactions on Nuclear Science, 2006, 53, 1564-1573.	2.0	27
6	A high-performance encoder with priority lookahead. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1390-1393.	0.1	26
7	Delay and Energy Analysis of SEU and SET-Tolerant Pipeline Latches and Flip-Flops. IEEE Transactions on Nuclear Science, 2009, 56, 1618-1628.	2.0	26
8	Carbon Nanotube SRAM Design With Metallic CNT or Removed Metallic CNT Tolerant Approaches. IEEE Nanotechnology Magazine, 2012, 11, 788-798.	2.0	26
9	Effective Low Leakage 6T and 8T FinFET SRAMs: Using Cells With Reverse-Biased FinFETs, Near-Threshold Operation, and Power Gating. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 765-769.	3.0	26
10	Hardened by Design Techniques for Implementing Multiple-Bit Upset Tolerant Static Memories. , 2007, , .		23
11	A flexible bit-pattern associative router for interconnection networks. IEEE Transactions on Parallel and Distributed Systems, 1996, 7, 477-485.	5.6	21
12	Design and evaluation of a DAMQ multiprocessor network with self-compacting buffers. , 0, , .		20
13	High-Performance Low-Power Selective Precharge Schemes for Address Decoders. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 917-921.	3.0	18
14	A Medium-Grain Reconfigurable Architecture for DSP: VLSI Design, Benchmark Mapping, and Performance. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 14-23.	3.1	17
15	A VLSI high-performance encoder with priority lookahead. , 0, , .		16
16	Low power SRAM cell design for FinFET and CNTFET technologies. , 2010, , .		16
17	Decoupled dynamic ternary content addressable memories. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 2139-2147.	0.1	15
18	Full-VDD and near-threshold performance of 8T FinFET SRAM cells. The Integration VLSI Journal, 2017, 57, 169-183.	2.1	15

#	ARTICLE	IF	CITATIONS
19	A programmable dynamic interconnection network router with hidden refresh. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 1182-1190.	0.1	14
20	MARS: Misbehavior Detection in Ad Hoc Networks. , 2007, , .		14
21	Fault Tolerant Interleaved Switching Fabrics For Scalable High-Performance Routers. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1727-1739.	5.6	14
22	SRAM leakage in CMOS, FinFET and CNTFET technologies. , 2012, , .		14
23	Digital neural emulators using tree accumulation and communication structures. IEEE Transactions on Neural Networks, 1992, 3, 934-950.	4.2	13
24	An Energy-Efficient Differential Flip-Flop for Deeply Pipelined Systems. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	12
25	A Shared Self-Compacting Buffer for Network-On-Chip Systems. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	10
26	A mesochronous pipelining scheme for high-performance digital systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 1078-1088.	0.1	10
27	A two-level reconfigurable architecture for digital signal processing. Microelectronic Engineering, 2007, 84, 244-252.	2.4	10
28	Advanced IT support of crisis relief missions. Journal of Emergency Management, 2006, 4, 29-36.	0.3	10
29	Medium-Grain Cells for Reconfigurable DSP Hardware. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1255-1265.	0.1	9
30	BASIS: A Biological Approach to System Information Security. Lecture Notes in Computer Science, 2001, , 127-142.	1.3	9
31	Parallel architectures for AI semantic network processing. Knowledge-Based Systems, 1988, 1, 259-265.	7.1	8
32	Flexible oblivious router architecture. IBM Journal of Research and Development, 1995, 39, 315-329.	3.1	8
33	A VLSI crossbar switch with wrapped wave front arbitration. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 135-141.	0.1	8
34	Intelligent management of distributed dynamic sensor networks. Artificial Life and Robotics, 2008, 12, 81-87.	1.2	8
35	Performance of CNFET SRAM cells under diameter variation corners. , 2009, , .		8
36	Low power and metallic CNT tolerant CNTFET SRAM design. , 2011, , .		8

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37	Decreasing energy consumption in address decoders by means of selective precharge schemes. <i>Microelectronics Journal</i> , 2009, 40, 1590-1600.	2.0	7
38	Near-Threshold CNTFET SRAM Cell Design With Word-Line Boosting and Removed Metallic CNT Tolerance. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 182-191.	2.0	7
39	Low-Power FinFET design schemes for NOR address decoders. , 2010, , .		6
40	Online Firmware Functional Validation Scheme Using Colored Petri Net Model. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020, 39, 1532-1545.	2.7	6
41	A high performance pattern associative oblivious router for tree topologies. , 0, , .		5
42	Pipelined multipliers for reconfigurable hardware. , 0, , .		5
43	High Performance Memory Read Using Cross-Coupled Pull-up Circuitry. <i>Midwest Symposium on Circuits and Systems</i> , 2006, , .	1.0	5
44	Reducing power in memory decoders by means of selective precharge schemes. <i>Midwest Symposium on Circuits and Systems</i> , 2007, , .	1.0	5
45	IP Routing table compaction and sampling schemes to enhance TCAM cache performance. <i>Journal of Systems Architecture</i> , 2009, 55, 61-69.	4.3	5
46	A VLSI self-compacting buffer for DAMQ communication switches. , 0, , .		4
47	A High Performance Hybrid Wave-Pipelined Multiplier. , 0, , .		4
48	CNTFET SRAM cell design with tolerance to metallic CNTs. , 2010, , .		4
49	Performance-power tradeoffs of 8T FinFET SRAM cells. , 2011, , .		4
50	FinFET 3T and 3T1D dynamic RAM cells. , 2012, , .		4
51	CNTFET 8T SRAM cell performance with near-threshold power supply scaling. , 2013, , .		4
52	An evaluation of 6T and 8T FinFET SRAM cell leakage currents. , 2014, , .		4
53	Software Metrics and Microcode: A Case Study. <i>Journal of Software: Evolution and Process</i> , 1996, 8, 199-224.	0.4	3
54	A CLUSTERING AND GENETIC SCHEME FOR LARGE TSP OPTIMIZATION PROBLEMS. <i>Cybernetics and Systems</i> , 1998, 29, 137-157.	2.5	3

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55	Self-timed refreshing approach for dynamic memories. , 0, , .		3
56	A hybrid wave-pipelined network router. , 0, , .		3
57	Wave-Pipelining the Global Interconnect to Reduce the Associated Delays. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	3
58	Using a Cache Scheme to Detect Misbehaving Nodes in Mobile Ad-Hoc Networks. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	3
59	CNTFET SRAM cell with tolerance to removed metallic CNTs. , 2012, , .		3
60	Near-threshold CNTFET SRAM cell design with gated cell power supply. , 2013, , .		3
61	Near-threshold CNTFET SRAM cell design with removed metallic CNT tolerance. , 2015, , .		3
62	An implemented, initialization algorithm for many-dimension, Monte Carlo circuit simulations using Spice. , 2017, , .		3
63	A VLSI Pipelined Neuroemulator. , 1994, , 71-80.		3
64	SEMANTIC NETWORK ARCHITECTURES: AN EVALUATION. International Journal on Artificial Intelligence Tools, 1992, 01, 57-83.	1.0	2
65	SPIN: THE SEQUENTIAL PIPELINED NEUROEMULATOR. International Journal on Artificial Intelligence Tools, 1993, 02, 117-132.	1.0	2
66	A VLSI wrapped wave front arbiter for crossbar switches. , 2001, , .		2
67	Enhanced fault-tolerant CMOS memory elements. , 0, , .		2
68	A Distributed FIFO Scheme for on Chip Communication. , 0, , .		2
69	NXG05-1: Interleaved Multistage Switching Fabrics for Scalable High Performance Routers. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
70	Preface of Special Issue on VLSI Design and Test. Microelectronic Engineering, 2007, 84, 193.	2.4	2
71	Emergent societies: advanced IT support of crisis relief missions. Artificial Life and Robotics, 2007, 11, 116-122.	1.2	2
72	High-performance low-power AND and Sense-Amp address decoders with selective precharging. , 2008, , .		2

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73	A novel analytical model for wormhole switching network on chip with adaptive routing. , 2010, , .		2
74	A medium-grain reconfigurable processing unit. , 2010, , .		2
75	CNTFET gate design with tolerance to metallic CNTs. , 2011, , .		2
76	A medium-grain reconfigurable processor organization. , 2011, , .		2
77	NOA: A Scalable Multi-Parent Clustering Hierarchy for WSNs. Procedia Computer Science, 2012, 10, 1140-1145.	2.0	2
78	Autonomous management of a recursive area hierarchy for large scale wireless sensor networks using multiple parents. Ad Hoc Networks, 2016, 39, 1-22.	5.5	2
79	A real-time UEFI functional validation tool with behavior Colored Petri Net model. , 2016, , .		2
80	A Crosstalk-Harnessed Signaling Enhancement that Eliminates Common-Mode Encoding. , 2021, , .		2
81	Executing tree routing algorithms on a high-performance pattern associative router. Journal of Systems Architecture, 1998, 44, 849-866.	4.3	1
82	A neuro-emulator with embedded capabilities for generalized learning. Journal of Systems Architecture, 1999, 45, 1219-1243.	4.3	1
83	A wave-pipelined router architecture using ternary associative memory. , 2000, , .		1
84	A Reduced Clock Delay Approach for High Performance Mesochronous Pipeline. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	1
85	A mesochronous pipeline scheme for high performance low power digital systems. , 0, , .		1
86	Clock skew tolerant communication scheme for SoC IP blocks. , 2008, , .		1
87	Management of large-scale wireless sensor networks utilizing multi-parent recursive area hierarchies. , 2013, , .		1
88	UEFI USB bus initialization verification using Colored Petri Net. , 2015, , .		1
89	Firmware functional validation using a Colored Petri Net model. , 2017, , .		1
90	Asymmetric Crosstalk Harness Signaling for Common Eigenmode Elimination. IEEE Transactions on Computers, 2021, , 1-1.	3.4	1

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91	A Dataflow Architecture for AI. , 1991, , 23-32.		1
92	Asymmetric Crosstalk Harnessed Signaling for Large 3D Routing Integration. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1059-1063.	3.0	1
93	A dictionary machine emulation on a VLSI computing tree system. , 0, , .		0
94	Performance Analysis of Multipath Data Transmission in Multihop Ad Hoc Networks. , 2006, , .		0
95	Redundant Array of Independent Fabrics - An Architecture for Next Generation Network. , 2007, , .		0
96	Multiple node upset mitigation in TPDICE-based pipeline memory structures. , 2008, , .		0
97	A performance-power evaluation of FinFET flip-flops under process variations. , 2011, , .		0
98	A superscalar processor for a medium-grain reconfigurable hardware. , 2012, , .		0
99	MWSCAS Guest Editorial Special Issue Based on the 62nd International Midwest Symposium on Circuits and Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3249-3250.	5.4	0
100	ARCHITECTURAL SCHEMES FOR SEMANTIC NETWORKS. , 1992, , 516-540.		0
101	A pattern-associative router for interconnection network adaptive algorithms. Lecture Notes in Computer Science, 1996, , 213-217.	1.3	0
102	Low-Power and Metallic-CNT-Tolerant CNTFET SRAM Design. , 2017, , 547-565.		0