Sridharan K

List of Publications by Year in descending order

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516710 552781 1,230 42 16 26 h-index citations g-index papers 44 44 44 836 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	50 Years of CORDIC: Algorithms, Architectures, and Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 1893-1907.	5.4	424
2	Low Complexity Design of Ripple Carry and Brent–Kung Adders in QCA. IEEE Nanotechnology Magazine, 2012, 11, 105-119.	2.0	169
3	Efficient Design of a Hybrid Adder in Quantum-Dot Cellular Automata. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 1535-1548.	3.1	69
4	A Synthesis Methodology for Ternary Logic Circuits in Emerging Device Technologies. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2146-2159.	5.4	61
5	Efficient CORDIC Algorithms and Architectures for Low Area and High Throughput Implementation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 61-65.	3.0	51
6	Efficient Multiternary Digit Adder Design in CNTFET Technology. IEEE Nanotechnology Magazine, 2013, 12, 283-287.	2.0	44
7	New Decomposition Theorems on Majority Logic for Low-Delay Adder Designs in Quantum Dot Cellular Automata. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 678-682.	3.0	39
8	Low-Complexity Multiternary Digit Multiplier Design in CNTFET Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 753-757.	3.0	38
9	Efficient FPGA Realization of CORDIC With Application to Robotic Exploration. IEEE Transactions on Industrial Electronics, 2009, 56, 4915-4929.	7.9	34
10	A Bit-Serial Pipelined Architecture for High-Performance DHT Computation in Quantum-Dot Cellular Automata. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2352-2356.	3.1	33
11	Mobile Robot Navigation Through a Hardware-Efficient Implementation for Control-Law-Based Construction of Generalized Voronoi Diagram. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1083-1095.	5.8	30
12	Real-Time SURF-Based Video Stabilization System for an FPGA-Driven Mobile Robot. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	25
13	Carbon nanotube FETâ€based lowâ€delay and lowâ€power multiâ€digit adder designs. IET Circuits, Devices and Systems, 2017, 11, 352-364.	1.4	25
14	Low-Power and High-Performance Ternary SRAM Designs With Application to CNTFET Technology. IEEE Nanotechnology Magazine, 2021, 20, 562-566.	2.0	24
15	The Design of a Hardware Accelerator for Real-Time Complete Visibility Graph Construction and Efficient FPGA Implementation. IEEE Transactions on Industrial Electronics, 2005, 52, 1185-1187.	7.9	20
16	CORDIC-Based Azimuth Calculation and Obstacle Tracing via Optimal Sensor Placement on a Mobile Robot. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2317-2329.	5.8	19
17	A Resource-Efficient Multiplierless Systolic Array Architecture for Convolutions in Deep Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 370-374.	3.0	16
18	A Transistor-Level Probabilistic Approach for Reliability Analysis of Arithmetic Circuits With Applications to Emerging Technologies. IEEE Transactions on Reliability, 2017, 66, 440-457.	4.6	14

#	Article	IF	CITATIONS
19	Efficient design of Baugh-Wooley multiplier in Quantum-Dot Cellular Automata. , 2013, , .		12
20	A course on web languages and web-based applications. IEEE Transactions on Education, 2004, 47, 254-260.	2.4	11
21	Protecting an Autonomous Delivery Agent Against a Vision-Guided Adversary: Algorithms and Experimental Results. IEEE Transactions on Industrial Informatics, 2020, 16, 5667-5679.	11.3	10
22	A High-Speed VLSI Design and ASIC Implementation for Constructing Euclidean Distance-Based Discrete Voronoi Diagram. IEEE Transactions on Automation Science and Engineering, 2004, 20, 352-358.	2.3	9
23	Robotic mapping with simple sensing and processing hardware $\$\#x2014;$ Algorithm and architecture. , 2010, , .		9
24	Efficient QCA design of single-bit and multi-bit subtractors. , 2013, , .		8
25	Interval Analysis Technique for Versatile and Parallel Multi-Agent Collision Detection and Avoidance. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 98, 705-720.	3.4	7
26	Hardware architecture for finding shortest paths. , 2009, , .		6
27	An efficient algorithm to construct reduced visibility graph and its FPGA implementation. , 0, , .		4
28	Hardware-Efficient Velocity Estimation of Dynamic Obstacles Based on a Novel Radix-4 CORDIC and FPGA Implementation. , 2018 , , .		3
29	Multiagent Gathering With Collision Avoidance and a Minimax Distance Criterion—Efficient Algorithms and Hardware Realization. IEEE Transactions on Industrial Informatics, 2019, 15, 699-709.	11.3	3
30	Understanding the Incipient Discharge Activity with Epoxy/MoS ₂ Nanocomposites. International Journal of the Society of Materials Engineering for Resources, 2018, 23, 195-202.	0.1	3
31	Hardware-Efficient Schemes for Logarithmic Approximation and Binary Search With Application to Visibility Graph Construction. IEEE Transactions on Industrial Electronics, 2004, 51, 1346-1348.	7.9	2
32	Efficient VLSI Architectures for the Hadamard Transform Based on Offset-Binary Coding and ROM Decomposition. , 2011, , .		2
33	A High-Performance VLSI Architecture for a Self-Feedback Convolutional Neural Network. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 456-460.	3.0	2
34	An efficient fractals-based algorithm for clustering. , 0, , .		1
35	A novel CAM-based robotic indoor exploration algorithm and its area-efficient implementation. , 2008, , .		1
36	A pipelined architecture for motion tracking on a multicore environment. , 2014, , .		1

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#	Article	IF	Citations
37	A hardware-architecture for control-law based voronoi diagram computation and FPGA implementation. , 2008, , .		O
38	Reliability analysis of full adder in Schottky Barrier Carbon Nanotube FET technology. , 2014, , .		0
39	Hardware-Directed Feature Detection for Video Stitching in Intelligent Transportation. , 2015, , .		O
40	Rendezvous of heterogeneous robots amidst obstacles with limited communication., 2016,,.		0
41	Time Optimal Rendezvous for Multi-Agent Systems Amidst Obstacles - Theory and Experiments. , 2018, , .		O
42	CNTFET-Based Design of a Ternary Multiplier. Carbon Nanostructures, 2020, , 63-68.	0.1	0