

Chandra Shekhar

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

658
citations

759233

12
h-index

839539

18
g-index

98
all docs

98
docs citations

98
times ranked

516
citing authors

#	ARTICLE	IF	CITATIONS
1	An epidemiological study of traumatic brain injury cases in a trauma centre of New Delhi (India). <i>Journal of Emergencies, Trauma and Shock</i> , 2015, 8, 131.	0.7	49
2	Admission Control Policy of Maintenance for Unreliable Server Machining System with Working Vacation. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 2993-3005.	3.0	25
3	Design, Fabrication, and Characterization of Ni/4H-SiC (0001) Schottky Diodes Array Equipped With Field Plate and Floating Guard Ring Edge Termination Structures. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2012, 25, 664-672.	1.7	24
4	Load sharing redundant repairable systems with switching and reboot delay. <i>Reliability Engineering and System Safety</i> , 2020, 193, 106656.	8.9	22
5	Double orbit finite retrial queues with priority customers and service interruptions. <i>Applied Mathematics and Computation</i> , 2015, 253, 324-344.	2.2	19
6	Fabrication of Capacitive Micromachined Ultrasonic Transducer Arrays With Isolation Trenches Using Anodic Wafer Bonding. <i>IEEE Sensors Journal</i> , 2015, 15, 5177-5184.	4.7	19
7	Effect of thickness on the properties of ZnO thin films prepared by reactive RF sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14501-14507.	2.2	19
8	On the Threshold Voltage and Performance of ZnO-Based Thin-Film Transistors with a ZrO ₂ Gate Dielectric. <i>Journal of Electronic Materials</i> , 2020, 49, 3156-3164.	2.2	18
9	A novel real-time resource efficient implementation of Sobel operator-based edge detection on FPGA. <i>International Journal of Electronics</i> , 2014, 101, 1705-1715.	1.4	17
10	FPGA-Based Real-Time Motion Detection for Automated Video Surveillance Systems. <i>Electronics (Switzerland)</i> , 2016, 5, 10.	3.1	17
11	New design architecture of a 3-DOF vibratory gyroscope with robust drive operation mode and implementation. <i>Microsystem Technologies</i> , 2015, 21, 2175-2185.	2.0	15
12	Optimal control of a service system with emergency vacation using bat algorithm. <i>Journal of Computational and Applied Mathematics</i> , 2020, 364, 112332.	2.0	15
13	Study of ZnO/BST interface for thin-film transistor (TFT) applications. <i>Surfaces and Interfaces</i> , 2021, 23, 100996.	3.0	14
14	Vacation queuing model for a machining system with two unreliable repairmen. <i>International Journal of Operational Research</i> , 2014, 20, 469.	0.2	13
15	Sensitivity analysis of repairable redundant system with switching failure and geometric reneging. <i>Decision Science Letters</i> , 2017, , 337-350.	1.2	13
16	Area Optimized FPGA-Based Implementation of The Sobel Compass Edge Detector. , 2013, 2013, 1-6.		13
17	N-policy for a multi-component machining system with imperfect coverage, reboot and unreliable server. <i>Production and Manufacturing Research</i> , 2014, 2, 457-476.	1.5	12
18	Machine repair problem with an unreliable server and controlled arrival of failed machines. <i>Opsearch</i> , 2014, 51, 416-433.	1.8	12

#	ARTICLE	IF	CITATIONS
19	A time-shared machine repair problem with mixed spares under N-policy. Journal of Industrial Engineering International, 2016, 12, 145-157.	1.8	12
20	Queueing Analysis of Machine Repair Problem with Controlled Rates and Working Vacation Under F-Policy. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2016, 86, 21-31.	1.2	12
21	Warm-spares provisioning computing network with switching failure, common cause failure, vacation interruption, and synchronized renegeing. Reliability Engineering and System Safety, 2020, 199, 106910.	8.9	12
22	Genome wide analysis of Arabidopsis thaliana reveals high frequency of AAAGN7CTTT motif. Meta Gene, 2014, 2, 606-615.	0.6	11
23	Threshold Control Policy for Maintainability of Manufacturing System with Unreliable Workstations. Arabian Journal for Science and Engineering, 2017, 42, 4833-4851.	3.0	11
24	Modeling and simulation of temporal and temperature drift for the development of an accurate ISFET SPICE macromodel. Journal of Computational Electronics, 2020, 19, 367-386.	2.5	11
25	Machine Repair System with F-Policy, Two Unreliable Servers, and Warm Standbys. Journal of Testing and Evaluation, 2019, 47, 361-383.	0.7	11
26	Optimal and Sensitivity Analysis of Vacation Queueing System with F-Policy and Vacation Interruption. Arabian Journal for Science and Engineering, 2020, 45, 7091-7107.	3.0	10
27	A Novel Redundant Binary Number to Natural Binary Number Converter. Journal of Signal Processing Systems, 2010, 59, 297-307.	2.1	9
28	Optimal (N , F) policy for queue-dependent and time-sharing machining redundant system. International Journal of Quality and Reliability Management, 2017, 34, 798-816.	2.0	9
29	Matrix-geometric solution of multi-server queueing systems with Bernoulli scheduled modified vacation and retention of renegeed customers: A meta-heuristic approach. Quality Technology and Quantitative Management, 2021, 18, 39-66.	1.9	9
30	Processor-shared service systems with queue-dependent processors. Computers and Operations Research, 2005, 32, 629-645.	4.0	8
31	Design, simulation and modelling of LTCC based micro hotplate for gas sensor applications. , 2012, , .		8
32	Real-Time FPGA-Based Object Tracker with Automatic Pan-Tilt Features for Smart Video Surveillance Systems. Journal of Imaging, 2017, 3, 18.	3.0	8
33	Nano-arrays of SAM by dip-pen nanowriting (DPN) technique for futuristic bio-electronic and bio-sensor applications. Thin Solid Films, 2010, 519, 1025-1027.	1.8	7
34	Controlled Chemical Etching of ZnO Film for Step Coverage in MEMS Acoustic Sensor. Journal of Microelectromechanical Systems, 2012, 21, 517-519.	2.5	7
35	Fabrication of two-gimbal Ni-Fe torsional micro-gyroscope by SU-8 based UV-LIGA process. Microsystem Technologies, 2015, 21, 1479-1487.	2.0	7
36	Reliability prediction of fault tolerant machining system with reboot and recovery delay. International Journal of Systems Assurance Engineering and Management, 2018, 9, 377-400.	2.4	7

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37	Performance analysis and control F-policy for fault-tolerant system with working vacation. Opsearch, 2019, 56, 409-431.	1.8	7
38	Power- and Area-Optimized High-Level Synthesis Implementation of a Digital Down Converter for Software-Defined Radio Applications. Circuits, Systems, and Signal Processing, 2021, 40, 2883-2894.	2.0	7
39	Area optimized FPGA implementation of color edge detection. , 2013, , .		6
40	Real-Time Implementation of Change Detection for Automated Video Surveillance System. ISRN Electronics, 2013, 2013, 1-5.	1.1	6
41	<scp>Highâ€speed</scp> and <scp>areaâ€efficient</scp> Sobel edge detector on fieldâ€programmable gate array for artificial intelligence and machine learning applications. Computational Intelligence, 2021, 37, 1056-1067.	3.2	6
42	A 3D analytical model for threshold voltage of small-geometry MOSFET. Solid-State Electronics, 1996, 39, 745-751.	1.4	5
43	Delay optimized array multiplier for signal and image processing. , 2011, , .		5
44	Design of a fast and efficient hardware implementation of a random number generator in FPGA. , 2013, , .		5
45	Queueing analysis of two unreliable servers machining system with switching and common cause failure. International Journal of Mathematics in Operational Research, 2013, 5, 508.	0.2	5
46	Sensitivity analysis of an inventory model with non-instantaneous and time-varying deteriorating items. AIP Conference Proceedings, 2016, , .	0.4	5
47	Transient analysis of machining system with spare provisioning and geometric reneging. International Journal of Mathematics in Operational Research, 2017, 11, 396.	0.2	5
48	Reliability Prediction of Computing Network with Software and Hardware Failures. International Journal of Reliability, Quality and Safety Engineering, 2020, 27, 2040006.	0.6	5
49	A fast final adder for a 54-bit parallel multiplier for DSP application. International Journal of Electronics, 2011, 98, 1625-1638.	1.4	4
50	An embedded architecture for implementation of a video acquisition module of a smart camera system. , 2012, , .		4
51	Standbys provisioning in machine repair problem with unreliable service and vacation interruption. , 2021, , 101-133.		4
52	Figure-of-Merit-Based Area-Constrained Design of Differential Amplifiers. VLSI Design, 2008, 2008, 1-5.	0.5	4
53	Computer-aided design of an eight bit binary counter N-MOS chip for large scale integration (LSI). Microelectronics Reliability, 1984, 24, 885-896.	1.7	3
54	Design of Architecture and Instruction-set of RASIP for SDR. , 2006, , .		3

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55	Parameterized Module Scheduling Algorithm for Reconfigurable Computing Systems. , 2007, , .		3
56	Design and analysis of a compact fast parallel multiplier for high speed DSP applications using novel partial product generator and 4 : 2 compressor. International Journal of Electronics, 2008, 95, 139-157.	1.4	3
57	Design and Development of Embedded System on ARM for On-Line Characterization of DC Motor. , 2009, , .		3
58	Real-Time Object Segmentation in Smart Camera for Remote Surveillance Scenario. , 2010, , .		3
59	Memory Efficient VLSI Implementation of Real-Time Motion Detection System Using FPGA Platform. Journal of Imaging, 2017, 3, 20.	3.0	3
60	Estimation of scattering and intrinsic attenuation based on multiple lapse time window analysis in Sikkim Himalayan region, India. Physics of the Earth and Planetary Interiors, 2018, 284, 1-9.	1.9	3
61	Area, Speed and Power Optimized Implementation of a Band-Pass FIR Filter Using High-Level Synthesis. Wireless Personal Communications, 2022, 127, 1869-1878.	2.7	3
62	Modified Bessel series solution of the single server queueing model with feedback. International Journal of Computing Science and Mathematics, 2019, 10, 313.	0.3	3
63	Current status and way forward for National Accreditation Board for Testing and Calibration Laboratories Accreditation of Laboratories in Government Organizations. Indian Journal of Pathology and Microbiology, 2018, 61, 461.	0.2	3
64	A Purely MUX Based High Speed Barrel Shifter VLSI Implementation Using Three Different Logic Design Styles. Advances in Intelligent and Soft Computing, 2012, , 639-646.	0.2	3
65	Evaluation of device parameters of HfO ₂ /SiO ₂ /Si gate dielectric stack for MOSFETs. , 0, , .		2
66	Performance exploration of adder architectures for small to moderate-sized low-power, high-performance adders. Microelectronics International, 2005, 22, 20-27.	0.6	2
67	Performance characteristics of smart-materials based on lead zirconate titanate. Materials Letters, 2009, 63, 1958-1960.	2.6	2
68	FPGA Based Embedded Implementation of Video Summary Generation Scheme in Smart Camera. Advanced Materials Research, 2011, 403-408, 516-521.	0.3	2
69	Transmural migration of surgical sponge into stomach with outlet obstruction: Gossypiboma. Indian Journal of Gastroenterology, 2013, 32, 208-208.	1.4	2
70	FPGA-based real-time object tracker using modified particle filtering and SAD computation. , 2014, , .		2
71	Fault-tolerant redundant repairable system with different failures and delays. Engineering Computations, 2019, 37, 1043-1071.	1.4	2
72	Moving Object Tracking Using Object Segmentation. Communications in Computer and Information Science, 2010, , 691-694.	0.5	2

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73	Transient analysis of machining system with spare provisioning and geometric reneing. International Journal of Mathematics in Operational Research, 2017, 11, 1.	0.2	2
74	Parametric nonlinear programming for fuzzified queuing systems with catastrophe. International Journal of Process Management and Benchmarking, 2020, 10, 69.	0.2	2
75	A VME bus compatible ADC interface chip. Microelectronics Reliability, 1987, 27, 61-63.	1.7	1
76	A High-Speed Radix-64 Parallel Multiplier Using a Novel Hardware Implementation Approach for Partial Product Generation Based on Redundant Binary Arithmetic. , 2008, , .		1
77	Design and Implementation of Embedded Speed Controller on ARM for Micromanufacturing Applications. , 2009, , .		1
78	Dual channel addition based FFT processor architecture for signal and image processing. International Journal of High Performance Systems Architecture, 2009, 2, 35.	0.3	1
79	Characterization of microcantilever spring and force sensor using nanomanipulators. Thin Solid Films, 2010, 519, 1040-1043.	1.8	1
80	Hardware accelerator design for tracking in smart camera. , 2011, , .		1
81	Automatic real-time extraction of focused regions in a live video stream using edge width information. , 2014, , .		1
82	N-policy for a repairable redundant machining system with controlled rates. RAIRO - Operations Research, 2016, 50, 891-907.	1.8	1
83	A New XOR-FREE Approach to Implement Walsh Sequences. Wireless Personal Communications, 2019, 109, 51-60.	2.7	1
84	Reliability and Vacation: The Critical Issue. Springer Series in Reliability Engineering, 2020, , 251-292.	0.5	1
85	Review of MOS Models for Use in Computer-Aided Design (Circuit Simulation) of LSI Circuits. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 1986, 3, 299-306.	3.2	0
86	Accuracy of conventional inversion charge modeling in scaled down MOS devices. Microelectronics Reliability, 1988, 28, 15-17.	1.7	0
87	Testing of ASICs in Indian Context. IETE Technical Review (Institution of Electronics and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1	3.2	0
88	Subthreshold Conduction Models for MOSFET: A Review. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	3.2	0
89	VLSI Designâ€™Trends, Practices and Evolution. IETE Journal of Research, 1990, 36, 213-218.	2.6	0
90	A Finite State Machine Compiler and Simulator. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	0

#	ARTICLE	IF	CITATIONS
91	Selection of Optimum Device Size and Trans-Conductance Ratio for High Speed Digital CMOS Inverter Design for a Given Fanout Load. , 2009, , .		0
92	Synthesis of Analog IC Building Blocks. , 2011, , .		0
93	Hyperbaric oxygen therapy in diabetic foot: a study in Asianâ€“Indians. International Journal of Diabetes in Developing Countries, 2014, 34, 233-234.	0.8	0
94	Notice of Removal: SMCCS: A Code for Computation of Eigenmodes in a Gyrotron Resonator. , 2019, , .		0
95	Transient analysis of computing system with reboot and recovery delay. International Journal of Quality and Reliability Management, 2020, 37, 983-1005.	2.0	0
96	Optimal Profit Analysis of Machine Repair Problem with Repair in Phases and Organizational Delay. International Journal of Mathematical, Engineering and Management Sciences, 2020, 6, 442-468.	0.7	0