

Ali Rushdi

List of Publications by Year in descending order

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47
papers

626
citations

623734

14
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677142

22
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47
all docs

47
docs citations

47
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of symmetric switching functions in the computation of k-out-of-n system reliability. <i>Microelectronics Reliability</i> , 1986, 26, 973-987.	1.7	60
2	Indexes of a telecommunication network. <i>IEEE Transactions on Reliability</i> , 1988, 37, 57-64.	4.6	33
3	Improved variable-entered Karnaugh map procedures. <i>Computers and Electrical Engineering</i> , 1987, 13, 41-52.	4.8	28
4	Using variable-entered karnaugh maps to solve boolean equations. <i>International Journal of Computer Mathematics</i> , 2001, 78, 23-38.	1.8	27
5	Reliability of migration between habitat patches with heterogeneous ecological corridors. <i>Ecological Modelling</i> , 2015, 304, 1-10.	2.5	27
6	Uncertainty propagation in fault-tree analyses using an exact method of moments. <i>Microelectronics Reliability</i> , 1988, 28, 945-965.	1.7	26
7	Map derivation of the minimal sum of a switching function from that of its complement. <i>Microelectronics Reliability</i> , 1985, 25, 1055-1065.	1.7	24
8	Efficient computation of system reliability. <i>Reliability Engineering</i> , 1987, 17, 157-163.	0.3	23
9	Threshold systems and their reliability. <i>Microelectronics Reliability</i> , 1990, 30, 299-312.	1.7	23
10	A switching-algebraic analysis of consecutive-k-out-of-n:F systems. <i>Microelectronics Reliability</i> , 1987, 27, 171-174.	1.7	22
11	A Boolean minimization procedure using the variable-entered Karnaugh map and the generalized consensus concept. <i>International Journal of Electronics</i> , 2000, 87, 769-794.	1.4	21
12	Using variable-entered Karnaugh maps to produce compact parametric general solutions of Boolean equations. <i>International Journal of Computer Mathematics</i> , 2011, 88, 3136-3149.	1.8	20
13	Fault-tree modelling of computer system security. <i>International Journal of Computer Mathematics</i> , 2005, 82, 805-819.	1.8	19
14	Symbolic reliability analysis via Shannon's expansion and statistical independence. <i>Microelectronics Reliability</i> , 1985, 25, 1041-1053.	1.7	18
15	Map differentiation of switching functions. <i>Microelectronics Reliability</i> , 1986, 26, 891-907.	1.7	18
16	Optimal computation of k-to-l-out-of-n system reliability. <i>Microelectronics Reliability</i> , 1987, 27, 875-896.	1.7	14
17	A switching-algebraic analysis of circular consecutive-k-out-of-n:F systems. <i>Reliability Engineering and System Safety</i> , 1988, 21, 119-127.	8.9	14
18	Comments on "An efficient nonrecursive algorithm for computing the reliability of k-out-of-n systems" by A.K. Sarje and E.V. Prasad. <i>IEEE Transactions on Reliability</i> , 1991, 40, 60-61.	4.6	14

#	ARTICLE	IF	CITATIONS
19	Further Improved Variable-Entered Karnaugh Map Procedures for Obtaining the Irredundant Forms of an Incompletely-Specified Switching Function. Journal of King Abdulaziz University-Engineering Sciences, 2001, 13, 111-152.	0.0	14
20	Development of Modified Nodal Analysis into a Pedagogical Tool. IEEE Transactions on Education, 1985, 28, 17-25.	2.4	13
21	Reliability of Coherent Threshold Systems. Journal of Applied Sciences, 2015, 15, 431-443.	0.3	11
22	Leaky Modes in Parallel-Plate EMP Simulators. IEEE Transactions on Electromagnetic Compatibility, 1978, EMC-20, 443-451.	2.2	10
23	On computing the spectral coefficients of a switching function. Microelectronics Reliability, 1987, 27, 965-979.	1.7	10
24	Uncertainty analysis of fault trees with statistically correlated failure data. Microelectronics Reliability, 1990, 30, 157-175.	1.7	10
25	Some open questions on: strict consecutive-k-out-of-n:F systems. IEEE Transactions on Reliability, 1990, 39, 380-381.	4.6	9
26	A comparison between reliability analyses based primarily on disjointness or statistical independence: The case of the generalized indra network. Microelectronics Reliability, 1993, 33, 965-978.	1.7	9
27	An exposition of system reliability analysis with an ecological perspective. Ecological Indicators, 2016, 63, 282-295.	6.3	9
28	On computing the syndrome of a switching function. Microelectronics Reliability, 1987, 27, 703-716.	1.7	8
29	Code-fed omnidirectional arrays. IEEE Journal of Oceanic Engineering, 1989, 14, 384-395.	3.8	8
30	A purely map procedure for two-level multiple-output logic minimization. International Journal of Computer Mathematics, 2007, 84, 1-10.	1.8	8
31	THE INVERSE PROBLEM FOR BOOLEAN EQUATIONS. Journal of Computer Science, 2012, 8, 2098-2105.	0.6	8
32	Prominent classes of the most general subsumptive solutions of Boolean equations. Information Sciences, 2014, 281, 53-65.	6.9	8
33	A table for the lower boundary of the region of useful redundancy for k-out-of-n systems. Microelectronics Reliability, 1993, 33, 979-992.	1.7	7
34	Weighted voting systems: A threshold- Boolean perspective. Journal of Engineering Research, 2016, 4, .	0.7	7
35	Efficient Solution of Boolean Equations Using Variable-Entered Karnaugh Maps. Journal of King Abdulaziz University-Engineering Sciences, 2004, 15, 105-121.	0.0	7
36	Digital Circuit Design Utilizing Equation Solving over $\hat{\sim}$ Boolean Algebras. International Journal of Mathematical, Engineering and Management Sciences, 2018, 3, 404-428.	0.7	6

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37	A New Cryptographic Scheme Utilizing the Difficulty of Big Boolean Satisfiability. International Journal of Mathematical, Engineering and Management Sciences, 2018, 3, 47-61.	0.7	6
38	Capacity function-preserving star-delta transformations in flow networks. Reliability Engineering, 1987, 19, 49-58.	0.3	5
39	Efficient computation of the sensitivity of k-out-of-n system reliability. Microelectronics Reliability, 1993, 33, 1963-1979.	1.7	4
40	Efficient computation of the P.M.F. and the C.D.F. of the generalized binomial distribution. Microelectronics Reliability, 1994, 34, 1489-1499.	1.7	3
41	Computer Engineers Look at Qualitative Comparative Analysis. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 851-860.	0.7	3
42	Reliability Characterization of Binary-Imaged Multi-State Coherent Threshold Systems. International Journal of Mathematical, Engineering and Management Sciences, 2020, 6, 309-321.	0.7	3
43	Two-Level Multiple-Output Logic Minimization Using A Single Function. International Journal of Computer Mathematics, 2003, 80, 977-983.	1.8	2
44	System reliability analysis of small-cell deployment in heterogeneous cellular networks. Telecommunication Systems, 2020, 73, 371-381.	2.5	2
45	Boolean Curve Fitting with the Aid of Variable-Entered Karnaugh Maps. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 1287-1306.	0.7	2
46	On the Interplay Between Ecology and Reliability. , 2021, , 787-811.		2
47	Symbolic Reliability Analysis of a Multi-State Network. , 2021, , .		1