Ali Rushdi

List of Publications by Year
in descending order

47 papers	626 citations	623734 14 h-index	677142 22 g-index
47 all docs	47 docs citations	47 times ranked	138 citing authors

#	Article	IF	Citations
1	Symbolic Reliability Analysis of a Multi-State Network. , 2021, , .		1
2	On the Interplay Between Ecology and Reliability. , 2021, , 787-811.		2
3	System reliability analysis of small-cell deployment in heterogeneous cellular networks. Telecommunication Systems, 2020, 73, 371-381.	2.5	2
4	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
5	Computer Engineers Look at Qualitative Comparative Analysis. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 851-860.	0.7	3
6	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
7	Digital Circuit Design Utilizing Equation Solving over â€˜Bigâ€™ Boolean Algebras. International Journal of Mathematical, Engineering and Management Sciences, 2018, 3, 404-428.	0.7	6
8	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
9	Weighted voting systems: A threshold- Boolean perspective. Journal of Engineering Research, 2016, 4, .	0.7	7
10	An exposition of system reliability analysis with an ecological perspective. Ecological Indicators, 2016, 63, 282-295.	6.3	9
11	Reliability of migration between habitat patches with heterogeneous ecological corridors. Ecological Modelling, 2015, 304, 1-10.	2.5	27
12	Reliability of Coherent Threshold Systems. Journal of Applied Sciences, 2015, 15, 431-443.	0.3	11
13	Prominent classes of the most general subsumptive solutions of Boolean equations. Information Sciences, 2014, 281, 53-65.	6.9	8
14	THE INVERSE PROBLEM FOR BOOLEAN EQUATIONS. Journal of Computer Science, 2012, 8, 2098-2105.	0.6	8
15	Using variable-entered Karnaugh maps to produce compact parametric general solutions of Boolean equations. International Journal of Computer Mathematics, 2011, 88, 3136-3149.	1.8	20
16	A purely map procedure for two-level multiple-output logic minimization. International Journal of Computer Mathematics, 2007, 84, 1-10.	1.8	8
17	Fault-tree modelling of computer system security. International Journal of Computer Mathematics, 2005, 82, 805-819.	1.8	19
18	Efficient Solution of Boolean Equations Using Variable-Entered Kamaugh Maps. Journal of King Abdulaziz University-Engineering Sciences, 2004, 15, 105-121.	0.0	7

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19	Two-Level Multiple-Output Logic Minimization Using A Single Function. International Journal of Computer Mathematics, 2003, 80, 977-983.	1.8	2
20	Using variable-entered karnaugh maps to solve boolean equations. International Journal of Computer Mathematics, 2001, 78, 23-38.	1.8	27
21	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
22	A Boolean minimization procedure using the variable-entered Karnaugh map and the generalized consensus concept. International Journal of Electronics, 2000, 87, 769-794.	1.4	21
23	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
24	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
25	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
26	Efficient computation of the sensitivity of k-out-of-n system reliability. Microelectronics Reliability, 1993, 33, 1963-1979.	1.7	4
27	Comments on "An efficient nonrecursive algorithm for computing the reliability of k-out-of-n systems" by A.K. Sarje and E.V. Prasad. IEEE Transactions on Reliability, 1991, 40, 60-61.	4.6	14
28	Some open questions on: strict consecutive-k-out-of-n:F systems. IEEE Transactions on Reliability, 1990, 39, 380-381.	4.6	9
29	Uncertainty analysis of fault trees with statistically correlated failure data. Microelectronics Reliability, 1990, 30, 157-175.	1.7	10
30	Threshold systems and their reliability. Microelectronics Reliability, 1990, 30, 299-312.	1.7	23
31	Code-fed omnidirectional arrays. IEEE Journal of Oceanic Engineering, 1989, 14, 384-395.	3.8	8
32	Indexes of a telecommunication network. IEEE Transactions on Reliability, 1988, 37, 57-64.	4.6	33
33	Uncertainty propagation in fault-tree analyses using an exact method of moments. Microelectronics Reliability, 1988, 28, 945-965.	1.7	26
34	A switching-algebraic analysis of circular consecutive-k-out-of-n:F systems. Reliability Engineering and System Safety, 1988, 21, 119-127.	8.9	14
35	Capacity function-preserving star-delta transformations in flow networks. Reliability Engineering, 1987, 19, 49-58.	0.3	5
36	Efficient computation of system reliability. Reliability Engineering, 1987, 17, 157-163.	0.3	23

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37	On computing the syndrome of a switching function. Microelectronics Reliability, 1987, 27, 703-716.	1.7	8
38	Optimal computation of k-to-l-out-of-n system reliability. Microelectronics Reliability, 1987, 27, 875-896.	1.7	14
39	A switching-algebraic analysis of consecutive-k-out-of-n:F systems. Microelectronics Reliability, 1987, 27, 171-174.	1.7	22
40	On computing the spectral coefficients of a switching function. Microelectronics Reliability, 1987, 27, 965-979.	1.7	10
41	Improved variable-entered Karnaugh map procedures. Computers and Electrical Engineering, 1987, 13, 41-52.	4.8	28
42	Map differentiation of switching functions. Microelectronics Reliability, 1986, 26, 891-907.	1.7	18
43	Utilization of symmetric switching functions in the computation of k-out-of-n system reliability. Microelectronics Reliability, 1986, 26, 973-987.	1.7	60
44	Symbolic reliability analysis via Shannon's expansion and statistical independence. Microelectronics Reliability, 1985, 25, 1041-1053.	1.7	18
45	Map derivation of the minimal sum of a switching function from that of its complement. Microelectronics Reliability, 1985, 25, 1055-1065.	1.7	24
46	Development of Modified Nodal Analysis into a Pedagogical Tool. IEEE Transactions on Education, 1985, 28, 17-25.	2.4	13
47	Leaky Modes in Parallel-Plate EMP Simulators. IEEE Transactions on Electromagnetic Compatibility, 1978, EMC-20, 443-451.	2.2	10