

John Baugh

List of Publications by Year in descending order

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37
papers

437
citations

840585

11
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752573

20
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38
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38
times ranked

289
citing authors

#	ARTICLE	IF	CITATIONS
1	INTRACTABILITY OF THE DIAL-A-RIDE PROBLEM AND A MULTIOBJECTIVE SOLUTION USING SIMULATED ANNEALING. <i>Engineering Optimization</i> , 1998, 30, 91-123.	1.5	68
2	GENETIC ALGORITHM APPROACHES FOR ADDRESSING UNMODELED OBJECTIVES IN OPTIMIZATION PROBLEMS. <i>Engineering Optimization</i> , 2001, 33, 549-569.	1.5	59
3	A MATHEMATICAL PROGRAMMING APPROACH FOR GENERATING ALTERNATIVES IN DISCRETE STRUCTURAL OPTIMIZATION. <i>Engineering Optimization</i> , 1997, 28, 1-31.	1.5	42
4	Application of Genetic Algorithms for the Design of Ozone Control Strategies. <i>Journal of the Air and Waste Management Association</i> , 2000, 50, 1050-1063.	0.9	35
5	Data Abstraction in Engineering Software Development. <i>Journal of Computing in Civil Engineering</i> , 1992, 6, 282-301.	2.5	29
6	A novel optimization approach for minimum cost design of trusses. <i>Computers and Structures</i> , 2007, 85, 1782-1794.	2.4	21
7	Modeling and verifying active structural control systems. <i>Science of Computer Programming</i> , 1997, 29, 99-122.	1.5	19
8	Numerical study on factors influencing typhoon-induced storm surge distribution in Zhanjiang Harbor. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 215, 39-51.	0.9	18
9	Genetic Algorithm-Based Decision Support for Optimizing Seismic Response of Piping Systems. <i>Journal of Structural Engineering</i> , 2005, 131, 389-398.	1.7	15
10	An exact reanalysis technique for storm surge and tides in a geographic region of interest. <i>Coastal Engineering</i> , 2015, 97, 60-77.	1.7	15
11	Significance of multi-hazard risk in design of buildings under earthquake and wind loads. <i>Engineering Structures</i> , 2021, 243, 112623.	2.6	13
12	Verification of an active control system using temporal process algebra. <i>Engineering With Computers</i> , 1996, 12, 46-61.	3.5	12
13	A structure-based model of semantic integrity constraints for relational data bases. <i>Engineering With Computers</i> , 1987, 2, 31-39.	3.5	9
14	Evaluation of distributed finite element algorithms on a workstation network. <i>Engineering With Computers</i> , 1994, 10, 45-62.	3.5	8
15	Optimal Design of Redundant Water Distribution Networks Using a Cluster of Workstations. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2006, 132, 374-384.	1.3	8
16	Formal methods and finite element analysis of hurricane storm surge: A case study in software verification. <i>Science of Computer Programming</i> , 2018, 158, 100-121.	1.5	7
17	Asynchronous Genetic Algorithms for Heterogeneous Networks Using Coarse-Grained Dataflow. <i>Lecture Notes in Computer Science</i> , 2003, , 730-741.	1.0	7
18	Real-Time Software Development with Formal Models. <i>Journal of Computing in Civil Engineering</i> , 1995, 9, 73-86.	2.5	5

#	ARTICLE	IF	CITATIONS
19	A general characterization of the Hardy Cross method as sequential and multiprocess algorithms. Structures, 2016, 6, 170-181.	1.7	5
20	Adaptive subdomain modeling: A multi-analysis technique for ocean circulation models. Ocean Modelling, 2017, 115, 86-104.	1.0	5
21	Applications of coarse-grained dataflow in computational mechanics. Engineering With Computers, 1992, 8, 13-30.	3.5	4
22	A client-server approach for distributed finite element analysis. Advances in Engineering Software, 1993, 17, 69-78.	1.8	4
23	Semantic Validation of Product and Process Models. Journal of Computing in Civil Engineering, 1997, 11, 26-36.	2.5	4
24	SMT: An interface for localized storm surge modeling. Advances in Engineering Software, 2016, 92, 27-39.	1.8	3
25	Bounded Verification of Sparse Matrix Computations. , 2019, , .		3
26	Genetic Algorithm Search for Least Cost Design of Looped Pipe Networks Using Age as a Quality Surrogate and Different Levels of Redundancy. , 2001, , 1.		2
27	Closure to "Optimal Design of Redundant Water Distribution Networks Using a Cluster of Workstations" by Sujay V. Kumar, Troy A. Doby, John W. Baugh Jr., E. Downey Brill, and S. Ranji Ranjithan. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 580-581.	1.3	2
28	Verifying Concurrency in an Adaptive Ocean Circulation Model. , 2017, , .		2
29	Is Engineering Software Amenable to Formal Specification?. Workshops in Computing, 1993, , 1-17.	0.4	2
30	State-Based Formal Methods in Scientific Computation. Lecture Notes in Computer Science, 2018, , 392-396.	1.0	2
31	Design and verification of real-time systems. Lecture Notes in Computer Science, 1998, , 30-47.	1.0	1
32	Method for Least Cost Design of Looped Pipe Networks for Different Levels of Redundancy Using Genetic Algorithms. , 2000, , 1.		1
33	Finite State Verification of Intelligent Transportation Systems. Journal of Computing in Civil Engineering, 2000, 14, 38-50.	2.5	1
34	Winston-Salem Mobility Manager: Data Collection, Validation, and Performance Evaluation. Transportation Research Record, 2001, 1760, 114-120.	1.0	1
35	Modeling a Discrete Wet-Dry Algorithm for Hurricane Storm Surge in Alloy. Lecture Notes in Computer Science, 2016, , 256-261.	1.0	1
36	Hybrid Theorem Proving as a Lightweight Method for Verifying Numerical Software. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	A Simple Hybrid Event-B Model of an Active Control System for Earthquake Protection. Emergence, Complexity and Computation, 2020, , 157-194.	0.2	0