Didier El Baz

List of Publications by Year
in descending order

60 papers	716 citations	567281 15 h-index	610901 24 g-index
62 all docs	62 docs citations	62 times ranked	364 citing authors

#	Article	IF	Citations
1	Distributed Asynchronous Relaxation Methods for Convex Network Flow Problems. SIAM Journal on Control and Optimization, 1987, 25, 74-85.	2.1	74
2	Heuristics for the 0â€"1 multidimensional knapsack problem. European Journal of Operational Research, 2009, 199, 658-664.	5.7	64
3	Solving knapsack problems on GPU. Computers and Operations Research, 2012, 39, 42-47.	4.0	59
4	A new class of asynchronous iterative algorithms with order intervals. Mathematics of Computation, 1998, 67, 237-255.	2.1	49
5	GPU based parallel genetic algorithm for solving an energy efficient dynamic flexible flow shop scheduling problem. Journal of Parallel and Distributed Computing, 2019, 133, 244-257.	4.1	45
6	Asynchronous Iterative Algorithms with Flexible Communication for Nonlinear Network Flow Problems. Journal of Parallel and Distributed Computing, 1996, 38, 1-15.	4.1	38
7	M-Functions and Parallel Asynchronous Algorithms. SIAM Journal on Numerical Analysis, 1990, 27, 136-140.	2.3	27
8	Load balancing methods and parallel dynamic programming algorithm using dominance technique applied to the 0â€"1 knapsack problem. Journal of Parallel and Distributed Computing, 2005, 65, 74-84.	4.1	25
9	Asynchronous iterations with flexible communication: contracting operators. Journal of Computational and Applied Mathematics, 2005, 176, 91-103.	2.0	22
10	Recent Advances on GPU Computing in Operations Research. , 2013, , .		20
11	Solution of multidimensional knapsack problems via cooperation of dynamic programming and branch and bound. European Journal of Industrial Engineering, 2010, 4, 434.	0.8	19
12	High performance Peer-to-Peer distributed computing with application to obstacle problem. , 2010, , .		19
13	A procedure-based heuristic for 0-1 Multiple Knapsack Problems. International Journal of Mathematics in Operational Research, 2012, 4, 214.	0.2	18
14	MPI implementation of parallel subdomain methods for linear and nonlinear convectionâ€"diffusion problems. Journal of Parallel and Distributed Computing, 2007, 67, 581-591.	4.1	17
15	Distributed part differentiation in a smart surface. Mechatronics, 2012, 22, 522-530.	3.3	17
16	Parallel Asynchronous Schwarz and Multisplitting Methods for a Nonlinear Diffusion Problem. Numerical Algorithms, 2003, 33, 461-474.	1.9	16
17	A METHOD OF TERMINATING ASYNCHRONOUS ITERATIVE ALGORITHMS ON MESSAGE PASSING SYSTEMS. International Journal of Parallel, Emergent and Distributed Systems, 1996, 9, 153-158.	0.4	15
18	A Self-adaptive Communication Protocol with Application to High Performance Peer to Peer Distributed Computing. , 2010, , .		15

#	ARTICLE	IF	CITATIONS
19	A new stopping criterion for linear perturbed asynchronous iterations. Journal of Computational and Applied Mathematics, 2008, 219, 471-483.	2.0	14
20	Dense Dynamic Programming on Multi GPU. , 2011, , .		14
21	A dynamic programming method with lists for the knapsack sharing problem. Computers and Industrial Engineering, 2011, 61, 274-278.	6.3	12
22	IoT and the Need for High Performance Computing. , 2014, , .		11
23	Advances in cloud and big data computing. Concurrency Computation Practice and Experience, 2019, 31, e5053.	2.2	10
24	Asynchronous gradient algorithms for a class of convex separable network flow problems. Computational Optimization and Applications, 1996, 5, 187-205.	1.6	9
25	A programmable actuator for combined motion and connection and its application to modular robot. Mechatronics, 2019, 58, 9-19.	3.3	9
26	Combating the Infodemic: A Chinese Infodemic Dataset for Misinformation Identification. Healthcare (Switzerland), 2021, 9, 1094.	2.0	9
27	Enabling the Social Internet of Things and Social Cloud. IEEE Cloud Computing, 2015, 2, 6-9.	3.9	8
28	GPU computing applied to linear and mixed-integer programming. , 2017, , 247-271.		8
29	Asynchronous implementation of relaxation and gradient algorithms for convex network flow problems. Parallel Computing, 1993, 19, 1019-1028.	2.1	6
30	Stopping criteria, forward and backward errors for perturbed asynchronous linear fixed point methods in finite precision. IMA Journal of Numerical Analysis, 2005, 25, 429-442.	2.9	5
31	Some Solutions for Peer-to-Peer Global Computing. , 0, , .		5
32	A Parallel Ant Colony Optimization for the Maximum-Weight Clique Problem. , 2016, , .		5
33	SIMD Monte-Carlo Numerical Simulations Accelerated on GPU and Xeon Phi. International Journal of Parallel Programming, 2018, 46, 584-606.	1.5	5
34	Correlation of security events based on the analysis of structures of event types. , 2017, , .		4
35	A Survey on Parallel Genetic Algorithms for Shop Scheduling Problems. , 2018, , .		4
36	Implementation of distributed iterative algorithm for optimal control problems on several parallel architectures. Journal of Systems and Software, 2002, 60, 141-148.	4.5	3

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37	Distributed Discrete State Acquisition and Concurrent Pattern Recognition in a MEMS-Based Smart Surface#. , 2010, , .		2
38	HPC Applications Deployment on Distributed Heterogeneous Computing Platforms via OMF, OML and P2PDC. , 2014, , .		2
39	A Dual Heterogeneous Island Genetic Algorithm for Solving Large Size Flexible Flow Shop Scheduling Problems on Hybrid Multicore CPU and GPU Platforms. Mathematical Problems in Engineering, 2019, 2019, 1-13.	1.1	2
40	A parallel optimal routing algorithm. Parallel Computing, 1992, 18, 1393-1402.	2.1	1
41	Parallelization of subdomain methods with overlapping for linear and nonlinear convection-diffusion problems. , 2003, , .		1
42	Communication Study and Implementation Analysis of Parallel Asynchronous Iterative Algorithms on Message Passing Architectures. Parallel, Distributed and Network-based Processing, Proceedings of the Euromicro Workshop on, 2007, , .	0.0	1
43	Distributed Iterative Solution of Numerical Simulation Problems on Infiniband and Ethernet Clusters via the P2PSAP Self-Adaptive Protocol. , 2013, , .		1
44	Parallel Monte-Carlo Simulations on GPU and Xeon Phi for Stratospheric Balloon Envelope Drift Descent Analysis. , 2016, , .		1
45	Editorial for the special issue on heterogeneous sensorsâ€"based object identification and information fusion. International Journal of Communication Systems, 2017, 30, e3298.	2.5	1
46	Acceleration of a CUDA-Based Hybrid Genetic Algorithm and its Application to a Flexible Flow Shop Scheduling Problem. , 2018, , .		1
47	Heterogeneous Computing and Multi-Clustering Support Via Peer-To-Peer HPC. , 2018, , .		1
48	GRIDHPC: A decentralized environment for high performance computing. Concurrency Computation Practice and Experience, 2020, 32, e5320.	2.2	1
49	Performances analysis. , 2003, , .		0
50	Improved time and space complexity for Kianfar's inequality rotation algorithm. European Journal of Industrial Engineering, 2009, 3, 90.	0.8	0
51	PCO Introduction. , 2011, , .		0
52	PCO Introduction. , 2012, , .		0
53	PCO Introduction. , 2013, , .		0
54	Parallel Asynchronous Modified Newton Methods for Network Flows. , 2015, , .		0

#	Article	IF	Citations
55	PCO Introduction and Committees. , 2015, , .		0
56	Design of a New Fasten-Able Linear Motor for Smart Distributed Robot System. , 2016, , .		0
57	PCO Introduction and Committees. , 2016, , .		0
58	Introduction to PDCO Workshop. , 2017, , .		0
59	Guest Editor's Introduction: Special Section on Green Computing in Internet of Things. IEEE Transactions on Emerging Topics in Computing, 2020, 8, 750-751.	4.6	0
60	Method for Predicting Pixel Values in Background Areas in the Problem of Weighted Steganalysis in the Spatial Domain of Natural Images Under Small Payloads. Communications in Computer and Information Science, 2019, , 65-82.	0.5	0