Melissa C Smith

List of Publications by Year
in descending order

27	303	1307594	1125743
papers	citations	7	13
		h-index	g-index

28	28	28	373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast Newton-Raphson Power Flow Analysis Based on Sparse Techniques and Parallel Processing. IEEE Transactions on Power Systems, 2022, 37, 1695-1705.	6.5	8
2	Addressing noise in co-expression network construction. Briefings in Bioinformatics, 2022, 23, .	6.5	4
3	GEMmaker: process massive RNA-seq datasets on heterogeneous computational infrastructure. BMC Bioinformatics, 2022, 23, 156.	2.6	2
4	GPU Acceleration of the HemeLB Code for Lattice Boltzmann Simulations in Sparse Complex Geometries. IEEE Access, 2021, 9, 61224-61236.	4.2	4
5	A Parallel Jacobi-Embedded Gauss-Seidel Method. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1452-1464.	5.6	8
6	Complete and Resilient Documentation for Operational Medical Environments Leveraging Mobile Hands-free Technology in a Systems Approach: Experimental Study. JMIR MHealth and UHealth, 2021, 9, e32301.	3.7	2
7	Speech Enhancement Using Multi-Stage Self-Attentive Temporal Convolutional Networks. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3440-3450.	5.8	33
8	Speaker-Aware Speech Enhancement with Self-Attention. , 2021, , .		5
9	Intelligent Resource Provisioning for Scientific Workflows and HPC. , 2021, , .		0
10	Cellular State Transformations Using Deep Learning for Precision Medicine Applications. Patterns, 2020, 1, 100087.	5.9	9
11	Uncovering biomarker genes with enriched classification potential from Hallmark gene sets. Scientific Reports, 2019, 9, 9747.	3.3	15
12	A generalized deep learning approach for local structure identification in molecular simulations. Chemical Science, 2019, 10, 7503-7515.	7.4	55
13	Parallel Power Flow based on OpenMP. , 2018, , .		7
14	Subjective versus objective: classifying analytical models for productive heterogeneous performance prediction. Journal of Supercomputing, 2015, 71, 162-201.	3.6	3
15	Combining Hadoop and GPU to preprocess large Affymetrix microarray data. , 2014, , .		6
16	A regression–based performance prediction framework for synchronous iterative algorithms on general purpose graphical processing unit clusters. Concurrency Computation Practice and Experience, 2014, 26, 532-560.	2.2	5
17	A practical network intrusion detection system for inline FPGAs on 10GbE network adapters. , 2014, , .		3
18	Guest Editorial: Application Specific Processors and Architectures. Journal of Signal Processing Systems, 2014, 77, 1-3.	2.1	0

#	Article	IF	Citations
19	A comparative study of GPU programming models and architectures using neural networks. Journal of Supercomputing, 2012, 61, 673-718.	3.6	29
20	A Multi-Node GPGPU Implementation of Non-Linear Anisotropic Diffusion Filter. , 2012, , .		3
21	Parallelizing Principal Component Analysis for Robust Facial Recognition Using CUDA. , 2012, , .		4
22	Evaluation of GPU Architectures Using Spiking Neural Networks. , 2011, , .		4
23	Performance, optimization, and fitness: Connecting applications to architectures. Concurrency Computation Practice and Experience, 2011, 23, 1066-1100.	2.2	2
24	Optimization and performance study of large-scale biological networks for reconfigurable computing. , 2010, , .		10
25	FPGA Implementation of Izhikevich Spiking Neural Networks for Character Recognition. , 2009, , .		60
26	Speech Enhancement Using Forked Generative Adversarial Networks with Spectral Subtraction. , 0, , .		13
27	Improved Speech Enhancement Using a Time-Domain GAN with Mask Learning. , 0, , .		9