Deboleena Roy

List of Publications by Year
in descending order

10 papers	**342** citations	1478505 **6** h-index	1720034 **7** g-index
10 all docs	**10** docs citations	**10** times ranked	**438** citing authors

#	ARTICLE	IF	CITATIONS
1	Tree-CNN: A hierarchical Deep Convolutional Neural Network for incremental learning. Neural Networks, 2020, 121, 148-160.	5.9	138
2	Xcel-RAM: Accelerating Binary Neural Networks in High-Throughput SRAM Compute Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3064-3076.	5.4	65
3	Technology Aware Training in Memristive Neuromorphic Systems for Nonideal Synaptic Crossbars. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 335-344.	4.9	60
4	Constructing energy-efficient mixed-precision neural networks through principal component analysis for edge intelligence. Nature Machine Intelligence, 2020, 2, 43-55.	16.0	23
5	Stochastic Inference and Learning Enabled by Magnetic Tunnel Junctions. , 2018, , .		14
6	Synthesizing Images From Spatio-Temporal Representations Using Spike-Based Backpropagation. Frontiers in Neuroscience, 2019, 13, 621.	2.8	12
7	Scaling Deep Spiking Neural Networks with Binary Stochastic Activations. , 2019, , .		12
8	Revisiting Stochastic Computing in the Era of Nanoscale Nonvolatile Technologies. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 2481-2494.	3.1	8
9	On Robustness of Spin-Orbit-Torque Based Stochastic Sigmoid Neurons for Spiking Neural Networks. , 2019, , .		7
10	Embracing Stochasticity to Enable Neuromorphic Computing at the Edge. IEEE Design and Test, 2021, , 1-1.	1.2	3