

# Deboleena Roy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2381909/publications.pdf>

Version: 2024-02-01

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	Embracing Stochasticity to Enable Neuromorphic Computing at the Edge. IEEE Design and Test, 2021, , 1-1.	1.2	3
2	Tree-CNN: A hierarchical Deep Convolutional Neural Network for incremental learning. Neural Networks, 2020, 121, 148-160.	5.9	138
3	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
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	Synthesizing Images From Spatio-Temporal Representations Using Spike-Based Backpropagation. Frontiers in Neuroscience, 2019, 13, 621.	2.8	12
6	On Robustness of Spin-Orbit-Torque Based Stochastic Sigmoid Neurons for Spiking Neural Networks. , 2019, , .		7
7	Scaling Deep Spiking Neural Networks with Binary Stochastic Activations. , 2019, , .		12
8	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
9	Stochastic Inference and Learning Enabled by Magnetic Tunnel Junctions. , 2018, , .		14
10	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