

Abbreviation	Description
NSAT	Neural and Synaptic Transceiver Array
FPGA	Field-programmable Gate Array
DED	Differed Event-driven
AER	Address Event Representation
AON	Always ON
RLE	Run Length Encode
STDP	Spike-timing Dependent Plasticity
LTP	Long-term Potentiation
LTD	Long-term Depression
DSP	Digital Signal Processing
RTL	Register Transfer Level
SNN	Spiking Neural Network
ASIC	Application-specific integrated circuit
MNN	Mihalas-Niebur Neuron
DoG	Difference of Gaussians
SynOp	Synaptic Operations
MAC	Multiplication Accumulation
GPU	Graphics Processing Unit
eCD	event-based Contrastive Divergence
S2M	Synaptic Sampling Machine
eRBP	event-based Random Back-propagation
RBM	Restricted Boltzmann Machine
eRBM	event-based Restricted Boltzmann Machine
eRBHhp	event-based Restricted Boltzmann Machine high precision