

8 Training dataset MNIST	[This work]			
A OOD dataset Extended-MNIST (letters)	Determinist (simulation float 32)	BBB (simulation float 32)	Population coding with BBB	Temporal coding with HVM
accuracy	99.2%	98.97 $\pm$ 0.03%	98.76 $\pm$ 0.06%	98.82 $\pm$ 0.04 %
epistemic(AUC)	27.4%	96.63 $\pm$ 0.06%	94.87 $\pm$ 0.23%	91.23 $\pm$ 0.20%
aleatoric(AUC)	80.6%	64.55 $\pm$ 0.59%	64.66 $\pm$ 1.21%	70.70 $\pm$ 1.36 %
Bayesian samples	1	50	4	50
Memristor per weight	N/A		2x4=8	3
Normalized footprint			2.7	1