

Notation

x	A vector
X	A matrix
X	A Tensor
X_{ij}	Element located at row i column j in matrix X
$*$	The convolution operator
\circ	The Hadamard product
σ	The sigmoid activation function
$\nabla_x f$	Gradient of f with respect to x
$f(x; \theta)$	Function f with input x and parameter θ
$\mathcal{U}(a, b)$	Uniform distribution with support $[a, b]$