

Convolutional Neural Networks

Convolutional neural network example

Neural network example CONVZ POOLS POOL (DNV) Mospool 28×28×6 10×10×16 32232436 0,1,2,....9 NH, NW (120,400)

CONU-POOL-CONV-POOL-EC-EC- EC- SOFTMAX

(170)

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Neural network example

	Activation shape	Activation Size	# parameters
Input:	(32,32,3)	$-3,072$ $a^{(6)}$	0
CONV1 (f=5, s=1)	(28,28,8)	6,272	208 <
POOL1	(14,14,8)	1,568	0 ←
CONV2 (f=5, s=1)	(10,10,16)	1,600	416 <
POOL2	(5,5,16)	400	0 ←
FC3	(120,1)	120	48,001
FC4	(84,1)	84	10,081
Softmax	(10,1)	10	841