



# An integrated analog O/E/O link for multi-channel laser neuron

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Abstract: We present an integrated analog O/E/O link for multi-channel laser neuron. The link consists of a multi-channel laser neuron, a multi-channel optical-to-electronic converter, and a multi-channel electronic-to-optical converter. The link is designed to be used in a multi-channel laser neuron system. The link is designed to be used in a multi-channel laser neuron system. © 2016 AIP Publishing LLC. <https://doi.org/10.1063/1.4945368>

1, 3

4, 8

( $>10^7$ )

$N^2$

9

10

11

A

4, 8

12, 13

14

H

D

D((

$x_j$

$x_\Sigma = \sum_i w_i x_i$

A

21  
16 H W  
20  
W  
22  
23





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 D . . . . D w . . . . .  
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 w . . . . w . . . . .  
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