HFNLP biological implementation development specification - 07 June 2022

Concept neuron: Q

Instantiations of Q are encoded via detection of temporal/sequential spiked input:

Detected sequences (via combined subsequence detection):
Sequence #1: ABCDE
Sequence #2: FLMDH

Detected subsequences;
Subsequences #1: AB + AC + CD + DE = AP threshold
Subsequences #2: FL + MDH = AP threshold

- Detection of combined subsequences (#1 or #2) are sufficient to reach neuron Q action potential firing threshold.
- contributing synapses correlated with AP are strengthened (hebbian)

List of concept neurons in network:
A B C D E F G H I J K L M N O P Q R S T

Key:
synapse
dendrite
soma
axon

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