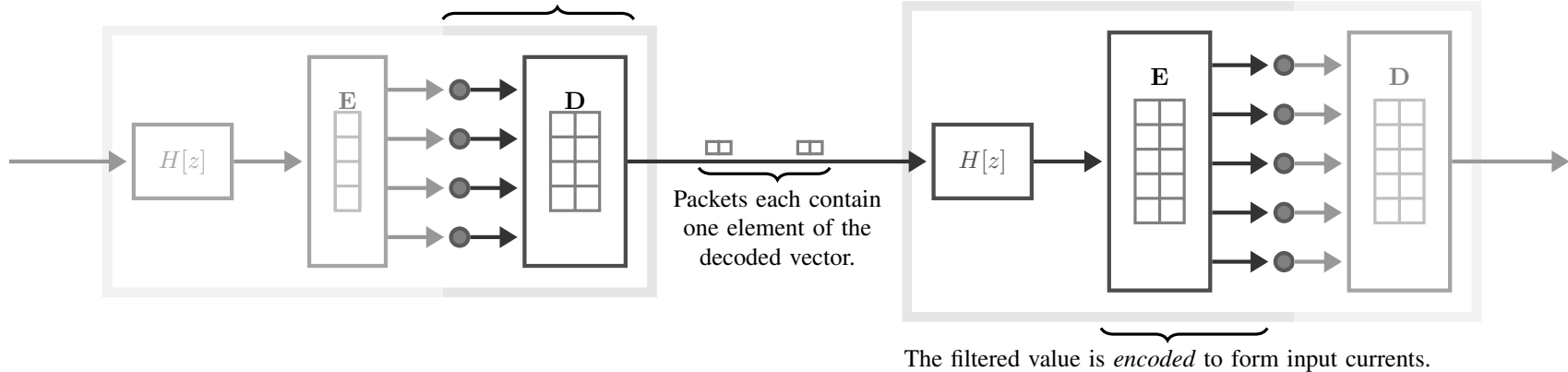Neurons are simulated. Any spikes are immediately *decoded* to form a vector representation of the activity of the neurons.

"Value" packets are received, these are reconstructed into a vector which is filtered using the synaptic filter model.

Packets each contain one element of the decoded vector.

The filtered value is *encoded* to form input currents.

Neurons are simulated. Spikes are queued for transmission over the network.

"Spike" packets are received. Synaptic weights and delays are looked up and inserted in a ring buffer to form input currents.

$\omega = \mathbf{DE}^\top$

Packets indicate which neurons have spiked.

$\omega = \mathbf{DE}^\top$