**Lec 13 Poll**

**Slide 31: Finite response system vs infinite response system**

**Convolutional neural networks are finite response systems, true or false**

* True
* False

**An input at time T affects the output of the convolutional layers of the network for all time, true or false**

* True
* False

**Slide 49: Jordan and Elman Nets**

**Memory neuron models have true recurrence, true or false**

* True
* False

**Memory neuron networks dedicate neurons specifically to store past history, true or false**

* True
* False

**Slide 97: Backprop in recurrent net**

**SGD trains neural networks one input at a time, rather than over batches of inputs. The corresponding equivalent for RNNs would be to update the network after each input vector: True or False**

* True
* False

**Select all that are true:**

* In RNNs the divergence we minimize is the sum of the divergences for the individual inputs in the time series
* The divergence is the divergence between the actual sequence of outputs and the desired sequence of outputs and cannot always be decomposed into the sum of divergences at individual time steps.

**Slide 105: Bidirectional net**

**A day trader in the stock exchange uses RNNs to make predictions from historical market data to decide which stocks to buy. He can use a bidirectional RNN for his task.**

* True
* False