Machine learning

Ramanandh25   **Jul 26**

hey adrian can a computer write a new movie script using Recurrent neural nets and also by using nlp and computer vision can a computer understand emotion and language using RNN and CNN to understand a scene .(a silly thought)

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Adrian Chief PyImageSearcher   **Jul 27**

You can do all kinds of fun stuff with Recurrent Neural Networks, including text generation:

http://karpathy.github.io/2015/05/21/rnn-effectiveness/

In fact, there are a few projects out there that (just for fun) generate text based on movie scripts, memes, TV shows, etc. However, *most of the time* the output doesn't make a ton of sense. But it does demonstrate that the network is actually "learning".

As for emotion recognition, computer vision has become pretty decent at that (although it's far from solved). Take a look at this pre-trained Caffe network for emotion recognition:

http://www.openu.ac.il/home/hassner/projects/cnn_emotions/

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Ramanandh25   **Jul 27**

thanks adrian for the reply

dave.snowdon   **Jul 28**

It's proprietary, but Softbank's Pepper robot can gauge emotion based on facial expressions, tone of voice and semantic content of speech.

Softbank's NAO robot can also guess emotions from facial expressions (as well as determine age and gender). I have a NAO robot and have tested the expression recognition - it works reasonably well but it not always accurate. I believe they are using openCV for this but they have not released any details on how they do it.