Keep up-to-date with NLP research

Congratulations for finishing with the lectures in our course!

NLP is a huge and rapidly emerging area. So to have an up-to-date understanding of its advances one should always keep track of what is going. In these reading material we provide some links for you that give a nice **overview of NLP trends as for the end of 2017**.

First, it is always a good idea to check out highlights from main conferences. There are nicely summarized trends of ACL-2017: [part 1](http://www.abigailsee.com/2017/08/30/four-deep-learning-trends-from-acl-2017-part-1.html), [part 2](http://www.abigailsee.com/2017/08/30/four-deep-learning-trends-from-acl-2017-part-2.html). Also, some highlights from EMNLP-2017 are available [here](http://blog.aylien.com/highlights-emnlp-2017-exciting-datasets-return-clusters/). Second, it would be a good idea to monitor some blogs, e.g. Sebastian Ruder has nice posts about [DL in NLP](http://ruder.io/deep-learning-nlp-best-practices/index.html), [optimization trends](http://ruder.io/deep-learning-optimization-2017/index.html), [word embeddings](http://ruder.io/word-embeddings-2017/index.html#embeddingsformultiplelanguages), and many others.

One of still active topics is Thought Vectors and how one can interpret directions in the hidden space. E.g. you might be interested to check out [this post](http://gabgoh.github.io/ThoughtVectors/). However, it's getting more clear that compressing all the input into one vector is often not enough and one might make nice things with [attention and linguistic information](https://machinethoughts.wordpress.com/2017/09/01/deep-meaning-beyond-thought-vectors/). Some more tips about attention [here](https://awni.github.io/train-sequence-models/?utm_campaign=Revue%20newsletter&utm_medium=Newsletter&utm_source=The%20Wild%20Week%20in%20AI).

Finally, [this is](https://tryolabs.com/blog/2017/12/12/deep-learning-for-nlp-advancements-and-trends-in-2017/?utm_campaign=Revue%20newsletter&utm_medium=Newsletter&utm_source=The%20Wild%20Week%20in%20AI) another nice overview of 2017 trends in NLP research - advances in unsupervised machine translation seem especially exciting!

**Not surprisingly, you will notice that each new year introduces new SOTA models and NLP techniques. Just to mention a few:**

* Transformers are everywhere, [this blogpost](http://jalammar.github.io/illustrated-transformer/)might be a good place to start
* New representation learning techniques (BERT, ELMO, etc).: [blogpost](http://jalammar.github.io/illustrated-bert/)
* Big pre-trained LM models (Transformer-XL, GPT-2, etc): [blogpost](https://jalammar.github.io/illustrated-gpt2/?utm_campaign=NLP%20News&utm_medium=email&utm_source=Revue%20newsletter)

To conclude, we would like to say **thank you** for taking our course and wish best of luck in your future NLP projects!