

Lectures d'articles scientifiques: Wednesday 16-18, L208.

Aurélie Herbelot Readings on Deep Learning

April 12: I broadly introduce the topic, and present a recent 'overview' paper on AI. (I'm suggesting the '*Roadmap towards Machine Intelligence*': <https://arxiv.org/abs/1511.08130>).

April 26: We'll go through some general concepts useful for understanding the literature on NNs and AI. We'll use some blog posts that make it easy for linguists to get a rough idea about the technology.

'Deep learning in a nutshell': <https://devblogs.nvidia.com/parallelforall/deep-learning-nutshell-core-concepts/> (all 4 parts).

'Attention and memory in deep learning': <http://www.wildml.com/2016/01/attention-and-memory-in-deep-learning-and-nlp/>

May 3: A. Lazaridou, A. Peysakhovich, and M. Baroni. 2017. Multi-agent cooperation and the emergence of (natural) language. Proceedings of ICLR 2017 (International Conference on Learning Representations). <https://arxiv.org/abs/1612.07182>

May 10: Hill, F., Bordes, A., Chopra, S., & Weston, J. 2016. *The Goldilocks Principle: Reading Children's Books with Explicit Memory Representations*. Proceedings of ICLR 2016. <https://arxiv.org/pdf/1511.02301.pdf>

May 17: Peng Qian, Xipeng Qiu, and Xuanjing Huang. 2016. *Investigating language universal and specific properties in word embeddings*. Proceedings of ACL2016. <http://www.aclweb.org/anthology/P16-1140>

May 24: Adam Henry Marblestone, Greg Wayne, Konrad P Kording. 2016. *Towards an integration of deep learning and neuroscience*. Frontiers in Computational Neuroscience. <http://biorxiv.org/content/early/2016/06/13/058545>