

Papers

Tuesday, November 2, 2021 11:52 AM

1. Basics of Curriculum Learning. Skim through in order to get a basic understanding of what CL is. Don't read the whole thing: <http://machinelearning.org/archive/icml2009/papers/119.pdf>
2. See how CL is applied in end-to-end ASR systems. This paper is a bit more advanced and so you don't have to understand everything but it would be helpful to go through (at least) the "Introduction", "3.2 Curriculum Learning" and "End-to-end speech recognition with character-based CTC" sections : <https://arxiv.org/abs/1711.02212>
3. Application of many different CL methods in DNN training. Not directly relevant to ASR but it still includes some useful information about how one can create a curriculum: <https://arxiv.org/abs/1904.03626>

Some further reading of studies that include CL:

- <https://www.sciencedirect.com/science/article/abs/pii/S0957417418303506> (can be accessed with your aalto account).
- <https://www.sciencedirect.com/science/article/abs/pii/S0885230814001211> CL for language model adaptation.
- <https://arxiv.org/abs/2102.03662> (Reinforcement Learning and CL for ASR. Interesting read but some more advanced topics are introduced).