Summary of some papers on curriculum learning

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0.1 Curriculum Learning

Curriculum learning is a way to train a machine learning algorithm in order to accelerate speed of convergence and/or final model performance. Intuitively, one would try to order the tasks according to their difficulty such that the model learns easy tasks prior to more complicated ones.

In his work[1], Jeffrey Elman has demonstrated the importance of curriculum when training neural networks. In particular, he has shown that good curriculum can accelerate speed of convergence. Notably, the model tasked with learning simple language grammar was unable to learn without introduction of curriculum learning.

- catastrophic forgetting

References

[1] Jeffrey L Elman. Learning and development in neural networks: The importance of starting small. *Cognition*, 48(1):71–99, 1993.