An Introduction to Deep Learning for Natural Language Processing

Tutorial Outline

Part 1: Background •

• A brief history of deep learning

• Transition of NLP to neural methods  
• An example of neural models for query classification

Part 2: Deep semantic similarity models for text processing •

Part 3: Recurrent neural networks for text generation •

Part 4: Neural machine reading models for question answering •

Part 5: Deep reinforcement learning for task-completion dialogue

Part 1: Background

1. DL历史
2. 40s-60s, cybernetics 控制论
3. 80s-90s, neural networks
4. 2006, deep learning
5. NLP 传统定义

