

Natural Language Processing exam program

1. BoW, TF-IDF
2. Embeddings main idea
3. word2vec: linearity, skip-gram, negative sampling
4. Unsupervised translation approach
5. CNNs in text processing
6. Attention mechanism
7. Self-attention mechanism
8. Transformer structure
9. Machine translation metrics, quality functions
 - a. BLEU, ROUGE, METEOR
10. BERT structure, main ideas
11. BERT (and other models) pre-training mechanisms
12. Question-answering systems
13. Distillation mechanism, teacher and student models
14. Self-critical sequence training (SCST, RL-related approach in NLP)