**Proposed subjects for theoretical papers**

1. **Hidden Markov Model (HMM) in NLP:**

* **Named Entity Recognition**
* **Machine Translation**
* **Handwriting recognition**

1. **Word embedding: Glove, CBOW, CoRoLa (Romanian)**
2. **Named Entity Recognition (other approaches than HMM)**
3. **Question Answering Systems with Natural Language Interface to Databases**
4. **Machine translation (other approaches than HMM)**
5. **Natural language generation**

* **Abstract generation**
* **Prose and poetry generation**

1. **Sentiment analysis: lexicons**
2. **Sentiment embedding – sentiment analysis**
3. **Emotion analysis: lexicons**
4. **Emotion detection**
5. **Authorship detection**
6. **Keywords extraction**
7. **NLP applied to literature**
8. **Unsupervised Text Summarization using Sentence Embedding**
9. **Word sense disambiguation using genetic algorithms and RoWordnet**
10. **Similarity measures for Romanian words**
11. **Anaphora resolution in Romanian language**
12. **Similarity measures between two texts**
13. **BERT for Text Classification**
14. **Chatbots**
15. **NLP models applied in other domains**

**and more...**