**Paper Title:** Exploring Natural Language Processing in Model-To-Model Transformations.
**Paper Link:** https://ieeexplore.ieee.org/document/9938985

1. Summary

**1.1 Motivation**

This paper seeks to solve and improve the abbreviation/acronym as well as conjunctive/disjunctive statements detection problem in Machine Learning based detection. In addition, This model can be used in similar topics such as process mining, and conversational intelligence.

**1.2 Contribution**

This paper is one of the first to apply deep learning-driven techniques to extract information from NLP models.

**1.3 Methodology**

Parts of speech tagging, dependency parsing, sequence tagging, and formal grammar-based extraction.

**1.4 Conclusion**

Stanza-based model outperformed all other models in abbreviation/acronym detections. However, BERT-BiLSTM- CRF outperformed all other models for the verb phrase detection task.

2. Limitations

**2.1 First Limitation**

Partial model-to-model transformation.

**2.2 Second Limitation**

Not optimized for large-scale deployment.

3. **Synthesis**

The paper provides valuable insights into the potential applications of NLP in improving the quality of model-to-model transformations and the use of deep learning techniques for NLP tasks. The paper offers valuable insights into the potential applications of natural language processing (NLP) in improving the quality of model-to-model transformations and the use of deep learning techniques for NLP tasks.