Okumura-Fuankoshi Lab

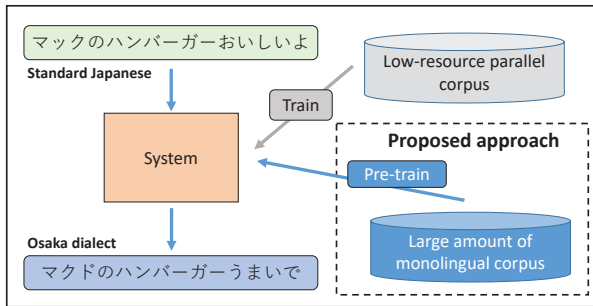## Natural Language Processing (NLP) in statistical or machine learning approaches

Intelligent Information Processing Research Core, FIRST

http://lr-www.pi.titech.ac.jp/wp_en/

- Summarization/translation of documents
- Verbalization of numerical data (games, weather, etc.)
- Dialogue systems that talk with people
- Grammar error detection for language learners
- Opinion and text mining from large web data
- Fundamental automatic linguistic analysis tools

Dialect translation with generalized labels and pre-training approach

Creates a system to convert standard words into dialects based on a small amount of training data
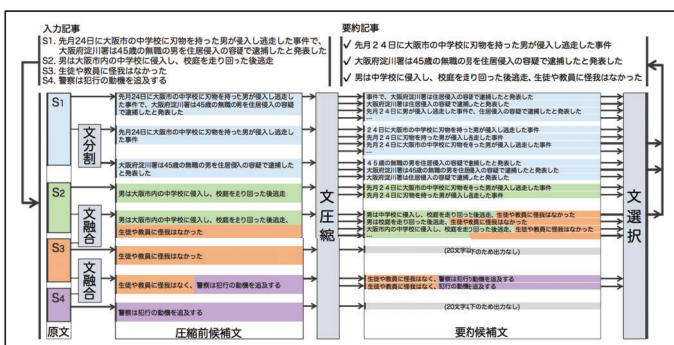

Automatic generation of weather forecast comments from numeric data

Creates comments considering various weather forecast numeric maps and delivery locations and times.

News article summary under length constraints

Flexibly uses sentence fusion, sentence segmentation, and sentence compression method to generate simple summaries of news

Support to understand the meaning of new katakana verbs

Helps understand new katakana verbs in microblogs such as Twitter by displaying the origins and the paraphrases of the words