

# Graduate School of Science and Technology Master's Thesis Abstract

Laboratory name (Supervisor)	Natural Language Processing (WATANABE TARO (Professor ))		
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Thesis title	Document-level Simplification Evaluation Metric based on Pre-trained Language Model and Optimal Transport		
Abstract			
<p>With the development of document simplification studies, trustworthy metrics for evaluation measuring the quality of simplified document is becoming increasingly important. Various automatic evaluation metrics based on N-gram overlap have been proposed for simplification. However, they failed to measure the quality of the simplified documents from the meaning-preserving and conciseness perspectives. Meanwhile, whether the simplified document concisely conveyed the primary idea from the original one is a critical criterion for evaluating the quality of the simplified document.</p> <p>Therefore, we proposed a new automated evaluation metric for document-level simplification, which is based on a pre-trained language model and Optimal Transport. It is proved that this new metric has a higher correlation with the human judgment rate compared to the existing document-level simplification metric.</p>			