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Author(s)	水野, 慎一朗
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Description	Supervisor:Nguyen Minh Le, 先端科学技術研究科, 修士(情報科学)

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Query-Focused Extractive Text Summarization for Multi-Topic Document

2030414 Shinichiro Mizuno

Document summarization is a very useful tool for quickly going through huge amount of information and understanding the essence. However, because people have different interests for each individual, if the summary is generated based on a different interest than you have, you can not find the information that you are looking for. In this study, we propose a system that generates topic-by-topic summary from a document consisting of multiple topics. To deal with this type of problem, we create a new dataset annotated with a summary for each topic. The dataset is created from integrated reports, which contain text labeled with each goal of the SDGs (Sustainable Development Goals), and we consider each goal as a topic. We solve this problem as a query-focused extractive text summarization problem and develop a novel query-focused summarization method for the created dataset. For comparison purpose, we devise a solution to solve this problem as a Question Answering (QA) task and we compare the performance of query-focused summarization methods, QA task methods, and several existing baseline methods. As a result of experiment, our proposed method of query-focused summarization outperforms existing baseline methods by 30% and outperforms the QA task methods by 11%.