

Title : Legal Knowledge Graph Construction Using Causality

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ABSTRACT

The development of the Causality Legal Knowledge Graph aims to design and develop an ontology to store knowledge extracted from Supreme Court judgments related to the Thai Civil and Commercial Code, based on causality relationships.

The research process begins with the collection of Supreme Court judgements related to the Thai Civil and Commercial Code. Then, classifying their contents to identify actions that are considered the results of specific causes to narrow down the scope of the cause. These actions and causes are then mapped as ontology instances, and the causal relationships between the action instances and their corresponding causes are established. The resulting knowledge graph can be used to retrieve related judgements by comparing the similarity of instances under the action and cause classes.

Keywords: Knowledge Graph, Ontology, Cosine Similarity, Large Language Model

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