DEFESA DE DISSERTAÇÃO DE MESTRADO

Programa de Pós-Graduação em Ciência da Computação

UNDERSTANDING CONTRACTS IN NATURAL LANGUAGE

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RESUMO:

Contracts are agreements between people or organization, called parties. They are usually written in formal language and are composed by a set of rules to be followed by the parties involved in it. In the processing of contracts, it is common to assume a manual step to extract the contract components to work with, which is a task that demands time and usually is domain based. Considering a scenario where every day there are more people interested in processing legal work, an automated tool to extract contractual components is extremely useful. This research defines an approach to automatically extract and formalize these components resulting in a semantic structure useful for other projects. To evaluate our work, we created a dataset containing 15 annotated contracts and measure our accuracy over different types of extractions. Our approach was used in two contract processing tasks: a new evaluation of fairness and conflict identification, with competitive results with the state of the art.

Keywords: Contracts, NLP, machine learning, deep learning.