COMP8740 Artificial Intelligence Project Plan

Project: Visualization of patent claims structure to improve their readability

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Project description:
The main goal of this project is to study the state of the art techniques about text readability. Several topics about readability will be address. First, a detail description of the problem will be tracked. The description should include, for example, what is text readability and how it can be measure; which are the target users of readability studies? layman people? people with cognitive disabilities? web-users? all of them?. Second, studies about how text readability can be improved are going to be discuss. The discussion will be focus in two main approaches: (i) Natural Processing Language based readability improvement, and (ii) Visualization based readability improvement. Finally, a critic review about the found literature would be presented and potential research directions would be outlined. Other goals about this study includes: the acquisition of fundamental research skills such as learn to discriminate relevant from irrelevant literature sources, develop the critical spirit, summarize and present a literature review, improve scientific writing skills. Furthermore, this study include the development of a software tool to improve the readability of the patent claims, within the aim of improving also their understandability. The software tool should offer two different solutions for approaching the mentioned task.

Project Schedule:
1st week to 3rd week: Project definition: confirm the scope of the project;
4th week to 7th week: Literature review;
8th week to 10th week: Software building;
11th week to 12th week: report writing and final presentation