

## AI 人工智慧應用於法律實務之文獻分析研究 論文摘要

吳筱涵\*

國立政治大學資訊管理學系博士班

[107356501@nccu.edu.tw](mailto:107356501@nccu.edu.tw)

## 摘要

本研究的目的是回顧我國自 2000 年至 2019 年 3 月底, 有關 AI 人工智慧應用於法律實務之相關碩博士論文及期刊文獻之研究方向與趨勢。本文從臺灣碩博士論文知識加值系統及臺灣期刊論文索引系統檢索了 38 篇文章, 並就關鍵字、文獻發表年份及其所應用之法律實務領域進行了分析與比較。本研究發現, 以法院裁判實務及專利領域之相關應用與探討為最多, 再者, 本文也發現最被廣泛且經常使用的 AI 相關技術, 為文字(件)探勘技術, 包括中文斷詞、語意近似性、自然語言、詞頻等具體的應用。同時, 本研究也發現, 文字探勘一語在近年來已漸漸被人們以 AI 人工智慧或者機器學習的概念所涵括, 尤其在 2017 年至 2018 年的文獻中更可發現許多文獻將文字探勘、人工智慧及機器學習並列, 在在顯示這三者的關係在法律實務應用的將會愈來愈緊密, 此一現象有助於了解過去國內有關 AI 應用在法律實務的重點及未來的可能走向。

**關鍵詞：**文字探勘、人工智慧、文獻回顧、法律文件、機器學習

## Abstract

The purpose of this study is to review the transition and the trend of relevant research and the application of artificial intelligence on legal practice from 2000 to the end of March, 2019. This paper retrieved a total of 38 articles from Taiwan's master's thesis knowledge value-added system and the Taiwan journal article index system, and analyzed and compared the keywords, the years of publication and the legal practice fields they have applied. The current study found that most of the literature focuses on the application and discussion of the justice practice and patent. Moreover, we also found that "text mining" is the most widely adopted and frequently used related technology to AI, including Chinese segmentation and semantics, natural language, word frequency, etc. At the same time, the current study also found that the term "text mining" has gradually been covered by the concept of AI artificial intelligence or machine learning in the recent two years, which used to appear frequently in 2017 and 2018. Nowadays, more and more literature starts to mention "text mining" with artificial intelligence and machine learning in their studies, indicating that the relationship between these three will become more and more closely applied in legal practice. This phenomenon in the past helps us to understand the key points and the possible trend of AI applications on legal practice in the future.

**Keywords:** Text mining, Artificial intelligence, literature review, legal document, machine learning.

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\* 吳筱涵, 美國哥倫比亞大學法律碩士、台灣大學商研所碩士及台灣大學法律/資訊管理雙學士。專業資格: 中華民國律師、專利代理人及仲裁協會仲裁人, 及美國紐約州律師。