



## 「教師跨領域研究社群」-智慧製造產研在地-第 6 次

時間：2021-11-02

地點：E806、MS Teams

使用 Msteams 遠端連線，廖老師開始講解自然語言處理的應用與常用的名詞解釋，最後結束前有 Q&A 讓同學可以直接問老師問題。透過這次的活動，了解到了自然語言處理常見的應用有，問答、文章生成、抓取違規詞。一句話當中的詞與詞之間會用離散的方式表示，稱之為 one hot vectors，亦即一個詞就會有一個維度，如果有十萬個詞就會有十萬個維度，在這之外常用的還有 N-gram、停詞(Stop word)、詞性標註、依存語法、命名實體識別、詞頻、詞庫、Distributional hypothesis、共生矩陣等方法。



開始前請與會人員開鏡頭



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The slide titled "NLP 的處理流程" (NLP Processing Flow) is part of a presentation from AI LAB@NTUB. It details the flow from raw text to knowledge-based applications. The process starts with "Algorithm" (Regular expression, POS tagger (FST), Information extractor (FST), Logic compiler (FST)) which processes "Data structure" (Characters, Tokens, Tagged tokens, Syntax tree, Entity relationships, Knowledge base). An "Example" shows the sentence "Good morning Rose." being processed into tokens, tagged tokens, a syntax tree, and entity relationships (morning, good, Rose, name of Person). The final "Applications" include cryptography, search, sentiment analysis, spelling/grammar correction, question answering, and knowledge extraction for medical diagnosis and AGI.

過程中簡報畫面

This screenshot shows a video conference in progress. On the left, a man in a light blue shirt is speaking. On the right, a man in a white shirt is smiling. In the bottom right corner, a smaller window shows a man with glasses. On the far right, a vertical list of circular icons represents the participants in the meeting, including names like 李, 翁, 許, 陳, 俞, 邱, 6, 張, 葉, 林.

演講結束後同學發問