

Research on Hidden Markov Models and their application in Vietnamese speech recognition

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Abstract: This topic focuses on researching Hidden Markov Models (HMM) and applying them to an Automatic Speech Recognition (ASR) system for the Vietnamese language. The context of the topic is defined by the high demand for information technology in developing natural language processing solutions. The main objective is to build an efficient HMM system to improve speech recognition accuracy. The research methodology includes both theoretical analysis and experimentation to ensure the comprehensiveness of the system. The expected results will contribute significantly to the field of natural language processing research for Vietnamese.

Keywords: Hidden Markov Model, Speech Recognition, Vietnamese, Natural Language Processing, ASR System