

Pichai Kittikong 2010: Automatic Citation Extraction. Master of Science (Computer Science), Major Field: Computer Science, Department of Computer Science. Thesis Advisor: Associate Professor Chuleerat Jaruskulchai, D.Sc. 76 pages.

This research presents an automatic Thai citation extraction. Automatic citation extraction is difficult due to variations reference styles and Thai script. Thai citation extraction adopts the framework of rule-based to perform parsing Thai citation data from Thai thesis. The Thai reference style is encoded by Context Free Grammar (CFG). The Accuracy of this algorithm has been tested on Thai thesis collection and only Thai references are extracted. The system can extract author, title, year with a high accuracy. The accuracy is compare with manual extraction by author, title and year. The overall average field accuracy of citation extraction is 96.49% of references.

Levenshtien distance is proposed for matching thesis title and author name. This research is tested on Thai thesis database collected from Kasetsart University during 2002 - 2005. The overall average citation index accuracy is 95.90% compare by manual citation index.

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Student's signature

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Thesis Advisor's signature

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