

## **ABSTRACT**

*Text Summarization is a method to perform automatic summarization in order to get a text or reading shorter. By doing Text Summarization, the information we need from text or reading will be easier to obtain, for example in the field of sports. Result of the summarization of the text in the field of sports continues to have words related appearance. This final project will be approached by Information Retrieval (IR) to implement Fuzzy Systems method based on Term Frequency and Inverse Document Frequency. The text in the field of sports will be proceeded with Extractive Summarization method namely by taking the original sentence of the text. The summarization has the same idea of original text in less space. The Summarization on the system will get the final value of a word or term with Fuzzy System, based on the value of a word or term that will be done to determine the summary. Testing will be done by user judgement method, where the result of summarization compared to the result of the respondents. Based on the comparison obtained value of precision (P) 92.78%, recall (R) 51.83%, and f-measure (F) 62.67%. The result show fuzzy rules meet the characteristics of the system then produce a quality summary.*

**Keyword** : *Text Summarization, Information Retrieval, Term Frequency, Inverse Document Frequency, Extractive Summarization, Fuzzy System, User Judgement*