

## **Abstract**

*Semantic Web allows the information located on the Internet to be processed by computer or software agent. This is made possible by the utilization of metadata on Semantic Web. Metadata on Semantic Web is a representation of information in human-language which is encapsulated in machine-language (machine-readable format). By using the machine-readable format, software agent can process and interpret the information contained in web pages. This will enable the agent software to assist users to acquire the required information. Natural Language Processing technique is used as an interface between users (human) and software agent. By utilizing Natural Language Processing, users can communicate with software agent through natural language which is delivered in Bahasa Indonesia (Indonesian Language).*

**Keywords:** *Ontology, Semantic Web, Natural Language Processing, NLP-Reduce*