

# **DISEASE ENGINEERING BASED DIAGNOSIS APPLICATION USING SEMANTIC ONTOLOGY**

Oleh

**ARIS MAZIDDAH**

**14 622 036**

Submitted to the Informatics Engineering Program Faculty of Engineering  
Muhammadiyah Gresik University on July 22, 2019  
to fulfill some requirements for achieving undergraduate degree of Informatics  
Engineering Study Program

## **ABSTRACT**

Semantic ontology is a way to revolutionize the internet world that will unite user interactivity, information collaboration, and artificial intelligence on the website. Combined with ontology to demonstrate knowledge from a set of concepts in the information domain and relationship between these concepts. It is very important to describe something. Technically, ontology can be represented in the form of objects, properties of objects, and relations between each object. The problem taken from this research is how to explain the relationship between facts and diseases using semantic ontology. Only a portion of the disease will be used. The use of students as an ontology tool is easier and more efficient. With 50 respondents for system testing, the selection of symptoms and disease that are displayed are in accordance with the designed ontology.

**Keywords :** *Ontology, Semantic, Protege*