***ABSTRACT***

*Expert systems are a branch of artificial intelligence which is quite old because this system was developed in the mid-1960s. Expert systems are also a branch of artificial intelligence and are a field of science that has emerged in line with current developments in computer science. This system is a system that can match or mimic the ability of an expert, this system can work by combining a knowledge base with an inference system to replace the role of an expert to solve a problem.*

*Pneumonia is one of the lower acute respiratory tract infections which is the main cause of morbidity and mortality for children under five years of age, especially in developing countries. The likelihood of becoming infected with pneumonia is higher if there are supporting risk factors, namely, lack of exclusive breastfeeding, malnutrition, indoor air pollution, very low birth weight, density, and lack of measles immunization.*

*The aim of this research is to analyze the symptoms of pneumonia (pneumonia) using the Dempster Shafer method. Dempster shafer is a method of representation, combination, and uncertainty propogation, where this theory has several characteristics that are institutive in accordance with the way of thinking of an expert, but with a strong mathematical basis.*