

## **ABSTRACT**

### ***EXPERT SYSTEM APPLICATION FOR DETECT DAMAGE HARDWARE COMPUTER WITH DEMPSTER SHAFER METHOD***

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*The use of computers is increasing along with the development of technology over the years. In use, the computer sometimes experience problems that make computer performance is not optimal. The frequency of data loss is caused by damage's computer hardware becomes a cause. Computer hardware is a very important component in a computer system. Many cases of damage caused by a computer that is not known by the user of the computer. Computer users do not find a solution to solve computer problems, thus making computer users instantly bring problems suffered damage to technicians / experts. Based on these problems the author designed and made an expert system to detect damage to computer hardware using methods demspter shafer. Dempster Shafer methods used for their system of belief and plausibility where symptom scores obtained from the real experts. In its design, this expert system using a waterfall methodology and built with PHP and MySql. Results from this research is the system can display the name of the damage, the damage percentage and solutions to overcome the damage of computer hardware.*

*Keywords: Expert System, Computer Hardware, Dempster Shafer, Waterfall*