ABSTRACT

EXPERT SYSTEM FOR DETECTING DAMAGE YAMAHA MOTOR POLICE AT 900 CC USING GRAF OR ALGORITHM (CASE STUDY PATWAL POLDA METRO JAYA)

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Patwal Polda Metro Jaya in the conduct and carry out their duties using the Yamaha P 900, and the problem tends to happen is the lack of information and handling in an effort to damage detection. For handling the Yamaha P 900 damage through early detection is essential in anticipation active in supporting the tasks Patwal Polda Metro Jaya, as do highway patrol streets are patterned and help smooth the traffic. This is a reference to the establishment of a computerized application of damage detection Yamaha P 900. Later in the application, an expert (technicians) that are embedded in the application of knowledge representation will provide a variety of questions that lead to the source of damage and solutions, for further handling steps taken as soon as possible.

Applications built using the algorithm implementation Graf Or the damage found in the search process with Forward Chaining inference which the reasoning starts from the symptom toward a solution. Tools to implement the algorithm Graf Or using Turbo Prolog 2.0 with Delphi 7 as CRUD dynamics as a media system and MySQL database.

By using the algorithm Graf Or with Forward Chaining inference implemented on the application and built using Turbo Prolog 2.0, Delphi 7, and MySQL then certainly built applications will show the source of the damage and get a solution through search, tracking, and tracing the symptoms, diagnosis, and solutions in the applications.

Keywords: Expert System, Graf Or, Forward Chaining, Prolog.