EXPERT SYSTEM STUDY BASED OF AIS DATA IN ORDER TO BUILT CONTROL CENTRAL OF TRAFFIC MONITORING IN THE PORT TANJUNG PERAK OF SURABAYA.

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Abstract
Port of Tanjung Perak, Surabaya is Indonesia's first-class port. Where vessel traffic in and out of the harbor is very high.

In this case to maintain the smooth flow of traffic the port order not to be choked up and running properly required the smooth flow of traffic control port of the required data to determine speed, location or position of the vessel. High precision and accuracy for monitoring the speed and the presence of the ship while in port area or in the anchoring zone, so that it can affect the quality of monitoring to be received by the data input and output. With the dynamic nature of the ship and move - move from one place to another. Then the simulation to monitor the speed and location of the ship while in port or a special area in the port so as to facilitate monitoring adannya sign - a sign of danger signals, it needs a controller that can control the monitoring process by using the If-Then logic.

The purpose of this design is to monitor the speed, position or location of the ship is simulated through visual basic 6.0 software, so the process to determine the level of port security and ship easier to do. In addition the design of this monitoring can also find out the ship's position in the port area. So it will be worth monitoring the results obtained that a ship across the harbor is safe or not.

Keywords: AIS Data, Monitoring Control, Expert System.
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