

Abstract

Mohamed Saad Zaghloul

Online Ship Control System using Supervisory Control and Data Acquisition (SCADA)

This paper is practical design and implementation of open architecture ship control, alarm and monitoring system using Supervisory Control and Data Acquisition (SCADA). Modern ships have an automatic system control which includes control, alarm and monitoring system that have access to all process control station and can monitor them. All the screens for different sensors in our design are Communication, fire doors control station, each type is dictated to specific task. The alarm system is connected to sensors everywhere in the ship and continuously monitors them, if any sensor reading is outside the preset limits we get an alarm. The monitoring system can record any alarm status and save it in hard disk printer with time stamp. The alarm system depends mainly on data coming from different sensors connected to corresponding measuring points, also an inhibit control can be applied to certain alarm group for disable at certain conditions for the system