

Abstract

Natural disaster specially flood is known as the major disaster. The damages and death rate due to flood is very high. It is necessary to protect the lives of people, economic rate of country and prevent other damages from flood. In this research a flood water monitoring system is modeled. The fundamental reason of modeling this system is to secure the people's and animals' lives due to flood water. The model system used the sensors to detect the water level. In critical or safe water level situations, it forecasts the alarming messages to the concern person of the flood management. In case of safe level, only internal gates are opened while in case of critical level, Dams, Barrages, Big and Small Canal gates are opened as per the requirement of water distribution. Colored Petri Nets are used to model this system by using Colored Petri Nets Tool in its methodology.