

Study on Building Fire Control System

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Abstract

Fire control is an important issue for building construction. Recently, fire control has been integrated with information and communication technology to accurately monitor related fire information. Fire alarm and monitoring system were constructed in the 3D models of a Building Information Modeling (BIM) system. When the sensor is activated, the system can instantly show floor and the room plan of fire points in 3D and connect to monitors which are assigned to watch the suspected fire area to determine the authenticity of the fire alarm. The system can plan an appropriate path and direction of escape by collecting fire location information to effectively evacuate people and reduce the damage caused by fire. The system can rapidly provide identification of fire points in the vast scene to effectively conduct firefighting and rescue work.

Keyword : Building Information Modeling; Fire Control System; Sensor; Monitor