Abstract

This study has been done in Tehran with the purpose of presenting strategy for promoting security and safety in high-rise buildings against fire. From the point of view on categorizing researches based on purpose, this one is an applied research, and from viewpoint on collecting data is descriptive-survey one; also in the all types of descriptive research methods, it is a case study. Our statistical population was comprised of 26 senior managers in Health, Safety and Environment (HSE) that expert questionnaire released between them. Based on studies, the main criteria of this research are building structural engineering, fire alarm systems and firefighting, safety design in building, and the occupants' behavioral skills, that and each of them included some sub-criteria. Analyzing the data was accomplished by applying the analytic hierarchy process (AHP) approach. Generally, it is proved that the criterion "occupants’ behavioral skills" with normalized weight 0/553 has the most priority, and the other hand the sub-criteria of "pumps and fire station installations with normalized weight 0/553 is the most important priority in sub-criteria.
References

1. Juan Chen, etc. Event-driven modeling of elevator assisted evacuation in ultra high-rise buildings Original Research Article Simulation Modelling Practice and Theory, Volume 74, May 2017, Pages 99-116

Index Terms

Computer Science

Security

Keywords

Safety, High-Rise Buildings, Fire, AHP