

十一、研究計畫中英文摘要：請就本計畫要點作一概述，並依本計畫性質自訂關鍵詞。

(二) 計畫英文摘要。(五百字以內)

Different records of fire accidents and experience of management kept by the fire department are lack of complete and appropriate analysis. Particularly, the information preserved across different organizations is not easy to acquire, so that they can't share useful information with each other. Therefore, if we can analyze the accident scenarios and extract the important options based on aggregated fire accident data, then together with the corresponding rescue experience learned from fire department mentors, the complete knowledge system will be established. Consequently, not only certain knowledge regarding how to relieve the victims of a disaster can be quickly accumulated, but the corresponding experience and information can be shared publicly.

In the second year of the project, knowledge audit will be executed based on fire accident cases in case the omission of tacit knowledge. Finished the knowledge audit, knowledge map is used to build the knowledge-sharing frame of fire accident for fireman or the authority, which could estimate the fire accident knowledge management system that complete and immediately on-line. Knowledge sharing should be constructed on information technology, organization structure to cultivate and complete the knowledge field. The cognition process includes mutual learning, problem solving, and decision-making. Besides, it will combine the organization, human, computer system and network to share and obtain the needed knowledge. Furthermore, it helps to turn knowledge toward non-linear and consistency for making decision and provide the abilities of crisis handle for organization. The most of all, applying knowledge to improve the ability of information technology handling, which promote the origination performance.

The system will be generated through the category confirmation, built-up process, and construction for the fire accident knowledge map, the investigation of the individual fire accident knowledge, and the formation of the accident problem-solving scheme. The advantages of this research include the following:

1. It can enlarge the knowledge sharing among fireman.
2. The fire accident knowledge assorted by the established system can be served as a basis and can be adapted to the precaution of other different disasters.
3. By means of the established system, the fire knowledge will be reserved in different fire departments due to the refinement of the knowledge management.

Keywords: Scenario Analysis, Fire Accident, Knowledge Sharing, Knowledge Management System, Knowledge Audit.