Spatial Information Structure Modeling for an Effective Management of an Indoor Hazardous Material

Jisung Kim, Hongsic Yun and Minkyo Youm (Republic of Korea)

Key words: Geoinformation/GI; Risk management; Hazardous Material Management; Indoor Spatial Information

SUMMARY

Studies have been conducted in order to control the indoor hazardous material. Accidents, however, such as toxic gas effluence, chemicals explosion still occurs due to lack of management. To overcome the disaster, user-friendly management system which controls the information of chemicals was designed based on the spatial information, and the information structure was modeled in the study. The target functions of the model are Data I/O of materials including spatial information, calculating the escape way in emergency and the interactions of other indoor features such as population, digestion facilities. To achieve these purposes, spatial information structure blueprint was designed, and hazardous material data was constructed based on it. As a result, by successfully executing the target function of the model, validity of the system was confirmed.

Spatial Information Structure Modeling for an Effective Management of an Indoor Hazardous Material (8242) Jisung Kim, Hongsic Yun and Minkyo Youm (Republic of Korea)

FIG Working Week 2016 Recovery from Disaster Christchurch, New Zealand, May 2–6, 2016