

Editor's Introduction for Volume 5, Issue 2

This issue contains six papers. There are three contributions written in English and three contributions in Chinese with English abstracts. The papers can be divided into four topics: risk-based mitigation planning, supply chain management, literature statistics and vulnerability assessment.

There are three papers on risk-based mitigation planning. The first paper "Modeling of municipal drainage and urban channel flooding in coastal city in the south of China" by Xiyan Ren, Demiao Yu, Yongjun Ruan, et al., puts forward a numerical model which is formatted including ocean, rain drainage, urban channels, and pumps by the software MIKE FLOOD. The second paper "Pluvial flooding risk analyzing and the solutions to risk mitigation for Dangyang city in China" by Yuhong Li, Lian Shi, Jiazhuo Wang, et al., introduces Urban Storm Water Drainage and Localized Pluvial Flooding Mitigation Planning of Dangyang City of Hubei Province in China. With the help of ARCGIS, MIKE FLOOD and other software, this paper found that the two main courses of pluvial flooding in Dangyang city are the flash floods around the city and the insufficient drainage river. This paper also gives several solutions for mitigation pluvial flooding risk based on analyzing the cause of pluvial flooding, identifying risk area and assessing the risk of pluvial flooding in Dangyang city. The third paper "Utilization of flood simulation technique in urban flood warning — A case study on Fuzhou" by Shuaijie Li, Yingxia Xie, Xiaotao Chengl, studies an emergency plan for flood control. The flood simulation technique was applied in urban flood warning and emergency response to improve the practicability and operability of the Emergency plan. Several calculation schemes, involving flood scenarios with high possibility or the most dangerous situations, were designed for the case study.

There is one paper in supply chain management, titled "A study of the role of customs in global supply chain management and trade security based on the authorized economic operator system" by Liwen Chen, Yongfei Ma, that conducts an in-depth study of customs management thinking regarding the AEO system and actively explores its implementation and integration with common practices of international customs standards and fulfilling the requirements of any international obligations.

The paper "Disaster risk research literature on statistics analysis in China Journal Net", by Shuzhen Li and Alateng Tuya, features the literature in China related to disaster risks which are collected from China National Knowledge Infrastructure (CNKI). Statistical analysis shows most studies in disaster risks are beginning from 2007, when the number of documents increased. Core journal literature citations are high, indicating that the field has a central effect, and receives attention in academia.

Also there is one paper on vulnerability assessment. The paper "GIS-based Assessment of Vulnerability to Landslide Hazards in Lushan Earthquake-stricken Areas" by Mingtao Ding and Cheng Miao, establishes a GIS-based system of vulnerability assessment to landslide hazard for Lushan earthquake-stricken areas. They extract six vulnerability assessment indexes including population, economic, and road densities, building and forestland coverage, and landslide hazard affected areas. The results show that the distribution of landslide hazard affected areas is closely correlated to the intensity of human engineering activities.

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Editor-in-Chief:
Prof. Chongfu Huang
Email: hchongfu@126.com

Publication Chair of SRA-China:
Prof. Mu Zhang
Email: rim_007@163.com

Director of Editorial Department:
Prof. Junxiang Zhang
Email: jracr_srachina@126.com