

MH-Shanghai: Urban Multi-Hazard Risk Assessment and Safety Management System

Speaker: Prof. Jie Li, Tongji University **Host: Prof. Michael Havbro Faber, Aalborg University**

Time: 25th October 2022, 15:00 – 16:00 Beijing Time

Lecture outline:

Modern city has been facing various hazard risks. To cope with the core requirements for maintaining the safe operation of megacities, developing a urban multi-hazard risk assessment and safety management system and applying it in practice, by virtue of the state-of-the-art outcomes from the GIS and CIM technologies and from the research of disaster prevention engineering, becomes the key block for constructing the resilience city. Since 2015 Shanghai Institute of Disaster Prevention and Relief has been devoted to the development of the urban multi-hazard risk assessment and safety management system, i.e., the MH-Shanghai, and gains a series of technological achievements that can be applied in practical applications. This lecture introduces the research and development goal, system configuration, critical technologies and main achievements. By combining with real engineering, the detailed application of the system in Shanghai water supply networks is introduced as well. In addition, the lecture addresses the issues related to artificial intelligences. Some suggestions are proposed from the perspective of fully strengthening the capacity of modern city against various disasters and improving the safety level of critical infrastructures.

About the speaker:

Prof. Jie Li is a Chair Professor in the Structural Engineering at Tongji University, the academician of the Chinese Academy of Science, and the director of Shanghai Institute of Disaster Prevention and Relief. He received Ph.D. in Structural Engineering from Tongji University, China in 1988, and received an honorary doctorate in engineering science from Aalborg University, Denmark in 2013. Prof. Li is the author of six monographs and more than 400 peer reviewed journal papers. In 2014, Prof. Li was awarded the Alfred M. Freudenthal Medal by ASCE, owing to his academic achievements in the probability density evolution method and in the seismic reliability based design of large-scale infrastructure systems.



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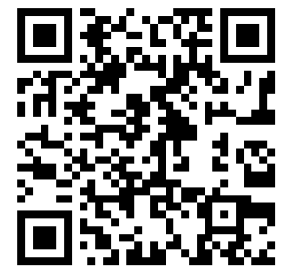
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