

BIOGRAPHY

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Prof. Huang is the National Yangtze River Scholar and Distinguished Professor of Tongji University, China. He also received the leading talents program of the "Ten Thousands Plan" of the China government, the leader of the key innovation team program of innovation talents promotion plan by MOST of China. Currently, Prof. Huang is the Funding Chair of Engineering Risk and Insurance Research Branch of China Civil Engineering Society since 2009. He also serves as core members for international academic committees including Geotechnical Safety Network (GEOSNet), Geo-Institute on Risk Management of ASCE, TC304 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMEGE), WG2 of ITA, etc. Prof. Huang is the Editorial Board Member of several high ranking international academic journals including Tunneling and Underground Space Technology, ASCE-ASME Journal of Risk and Uncertainty of Engineering System, and GeoRisk. He had been in charge of the scientific works granted by "973" and "863" Projects, 14 projects of National Natural Science Fund of China, and other 17 major scientific research projects. He has published more than 200 journal papers and more than 10 books, delivered more than 10 keynotes in international conferences, and chaired more than 5 international conferences. Particularly, he has initiated and also chaired the 1st International Symposium on Geotechnical Safety and Risk. Now the series of ISGSR has been successfully organized every two years with the latest one being held in Taipei 2019. He is the co-editor of one national standard and one national guideline. He has received an International Distinguished Service Award, two 2nd Prizes of Scientific and Technological Progress of the People's Republic of China, ten 1st and/or 2ed Prizes of Scientific and Technological Progress at the Provincial and Ministerial Level.

He is mainly engaged in risk assessment, risk early warning and risk control, underground infrastructure safety and health monitoring and inspection, etc. In the above research fields, the life-cycle risk management theory of urban underground infrastructure was established; the quantitative method and technology of dynamic risk assessment were put forward; the research based on advanced "Smart Monitoring" combined with big data information fusion technology was first conducted; the non-contact structural health inspection technology and equipment for urban tunnels were developed; and the research and field application based on artificial intelligence technologies such as machine learning, deep learning and mixed reality were carried out in the field of underground infrastructure. These original achievements not only enrich the basic theory of risk management for urban underground infrastructure, but also provide insightful guidance on the effective control of actual engineering safety risks.