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Ecological assessment on urban eco-security and strategy for the resilience to tackle with climate change

The concept of resilience under the challenges of global climate change has continuously attracted the international research interesting since 1980's. Some cities both in overseas and China such as London, New York, Chicago, Rotterdam, Durban, Quito, Shanghai, Shenzhen, Chengdu, Deyang and Huangshi, etc. have designed the planning and construction scheme of resilience according to their own characteristics from different aspects. It is now a new mode for urban development worldwide to tackle with the climate change. The dynamic resilience was assessed in this study by using a case study of Shanghai, China and puts forward the indexes system of eco-security and strategy of urban resilience. The results showed that the bigger difference exists between Chinese cities and western cities in environmental background and the complex ecosystem of natural and socio-economy, as well as administrative governance. Therefore, the strategies of China's urban eco-security and resilience should combine with their own conditions and characteristics.

Biography

Xiangrong Wang is currently the Director and Professor of the Centre for Urban Eco-planning and Design in the Department of Environmental Science and Engineering and Deputy Director of Yangtze River Economic Zone of Fudan University in Shanghai, China. He also serves as the President of the Shanghai Ecological Society and the Deputy Chairman of the Urban Ecological Commission within the Ecological Society of China. In addition, he is a Member of the Shanghai Senate, a Member of Shanghai Municipal Science and Technology. He is the Commission, the Chair of Environmental Science and Greening Division of Shanghai's Municipal Construction Commission and Executive Member of IUCN-CEC. He currently focuses on his research in the areas of urban ecology and planning, climate change and urban ecosystem research, environmental policy and management, vegetation ecology and natural conservation and environmental assessment and planning.

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