

Special Issue

Flood Resilience in Urban and Rural Communities

Message from the Guest Editors

Floods are the most frequent type of natural disaster and are often caused by heavy rainfall, rapid snowmelt, or a storm surge from a tropical cyclone or tsunami in coastal areas. Flood resilience in urban and rural communities refers to the ability of cities and rural areas at community level to withstand, adapt to, and recover from flooding events. It is recognised as an important means of reducing the impact of floods, protecting the environment, and enhancing the overall well-being and sustainability of their residents. Flood resilience measures can include both structural and non-structural approaches. Structural measures involve the construction of physical infrastructure, such as flood walls, levees, and stormwater management systems, to control or redirect floodwaters. Non-structural measures focus on policies, regulations, planning practices, flood forecasting and warning, and disaster prevention, preparedness and response mechanisms that aim to minimize flood risks, improve emergency response systems, and promote sustainable land use.

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