

Recent Research on and Prospects of the Disaster Prevention Technology

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Various natural disasters have occurred in Japan due to geological and meteorological conditions, and we have suffered a lot of personal and economical damage. The disaster prevention technology in the railway has been developed through many experiences and has contributed to the decrease of damage. After the 2011 off the Pacific coast of Tohoku Earthquake however the paradigm of disaster prevention has been shifted and local and extreme meteorological phenomena in recent years changes the social request for the disaster prevention technology. We are worried that low frequency-large scale disasters may occur in the near future. I will describe the necessity of preparations for the low frequency-large scale disasters and will introduce the results of our recent research on disaster prevention.