

Simulation Method of Runoff-inundation around Railway Lines by Localized Downpour of Short Duration

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Recently, due to local torrential rainfall events with high intensity which generate within a short time, flooding and inundation from rivers have caused disasters in urban area, and the number of these disasters has been increasing. Japan railways often restrict train operation because of the precipitation and the river water level. However, the operational service management method that takes into consideration the flooding and inundation phenomenon to occur within a short time has not yet been established. Therefore, it is necessary to develop a real-time rainfall runoff -inundation simulation method considering predicted rainfall in the near future. This paper reports the examination result of the validity of the proposal simulation method.