

## **Evaluation of Prediction Control Considering Conditions of Signalling System**

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We proposed a train control method named “prediction control”. The method aims to prevent undesirable deceleration or stop between stations in a high-density line, and controls train’s speed appropriately based on the prediction of the train movement and data communications. In order to evaluate the effect of the method by the recovery time from the train delay, we modelled the recovery mechanism. We performed evaluations for such conditions as the speed restriction, the length of track circuit installed at a station and the approach speed to the station. Our evaluation confirms that the prediction control method reduces the recovery time, and clarifies basic characteristics of the effects of this method.