

## **Recent Research and Development on Transport Information Technologies**

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This paper describes some of the topics from the recent research and development on transport information technologies, particularly focusing on three research projects for future railways. The first topic covers dynamic demand prediction and on-demand transportation planning technologies. The second topic is related to the optical communication technologies for realizing broadband communication services for passengers on high-speed trains. In the third topic, we discuss the application of sensing and information technologies for monitoring various facilities in railways.