

## **Information Transmission System among Vehicles Combining Wireless Transmission and Wired Transmission**

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On the abnormal condition detected on the vehicle, by transmitting the information to the driver as soon as possible, we expect that the train will operate more safely and stably than ever before. Therefore, a communication method among vehicles is studied for vehicles without transmission lines dedicated to information transmission. This paper describes a method of transmitting information by wire, using an existing service line for control signal transmission. Next, a communication method that combines wireless transmission and wired transmission is proposed. Finally, the result of a functional test is shown, which uses a prototype of an information transmission system that implements the proposed method.