Bluetooth-Measured Travel Times for Dynamic Re-Routing

Abstract:
This article describes an approach to use travel times derived from Bluetooth detector data for dynamic net control in a freeway system for dynamic re-routing. The developed algorithms detect speed drops among sequenced vehicles and were implemented and tested in Northern Bavaria (Germany). Ongoing research aims at developing a fast, reliable and cost-efficient method for incident detection using several Bluetooth receivers for vehicle re-identification. This article describes the methodological approach, focusing on the current test site around Nuremberg. Data from evaluation tests shows promising results and encourages the use of the relatively cheap data source Bluetooth for traffic control approaches.

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