

## **Store-carry-forward Data Collecting Network Using Intermittent Link with Trains**

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This paper describes the state of the art of the delay and disruption tolerant network technology (DTN), which is a promising solution for providing interoperable communications with and among extreme and performance-challenged environments where continuous end-to-end connectivity cannot be assumed. Based on the idea of DTN, we propose a store-carry-forward data collecting network using intermittent link with running trains as a tool to collect data from a variety of sensors which are attached to railway infrastructures for monitoring purposes. Communication tests have revealed that the system is effective, energy-efficient and robust enough to be used in sensor data gathering systems in railway environment.