

## Abstract

**TITLE :** Study on multi-probe ITS

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With the development of mobile technologies, probe car services that regard individual vehicles as moving sensor, have been attracting much attention. Data collected from moving vehicles can be utilized not only to generate real time traffic information but also to monitor vehicles situation and collect information at the time of disaster.

On the other hand, due to the rapid growth of smartphones, the amount of mobile data traffic has been rapidly increasing. It is important for probe services to consider solutions to realize effective wireless communication.

In this study, based on the future trend of probe car services, methods to promote effective use of wireless resource are examined and field experiments with 100 taxis were conducted.

This presentation will discuss the outlook for probe car services and evaluate the impact of efficient communication system on each layer.

### Procedure of field experiment

- Field experiment using 100 taxis with on-board devices.
- Correct probe-data under actual driving situation.
- Conduct network simulation to plan the field experiment.

