OGUCHI LAB.  
[Technologies for Safe and Sustainable Road Traffic Society]  

Department of Human and Social Systems, Institute of Industrial Science  
Traffic Management & Control  

Department of Civil Engineering, Graduate School of Engineering  
Interfaculty Initiative in Information Studies, Graduate School of Arts and Sciences  
http://www.transport.iis.u-tokyo.ac.jp/  

The studies in the laboratory are related to traffic engineering from various aspects such as fundamental theoretical studies, analyses of data collected by different types of sensors, and the effect evaluation of traffic management methods/policies based on traffic simulation models. They are expected to resolve the traffic safety, congestion and environmental impact issues, and to lead to innovative road traffic.  

The goals are to develop policy-assessment tools for safe, efficient and environmentally sustainable traffic society.  

**Scientific Approach for Traffic Flow**  

**Innovative policy**  
Studies on various traffic policies to safely and efficiently manage urban traffic flow:  
- Effects of offset control: Revisited  
- Comparison of different midblock crosswalk treatments  
- Ramp metering method for complex networks  
- Network control based on spatial congestion patterns  

**ITS Intelligent Transport Systems**  
Development of traffic simulation models and its application to policy evaluations  
- AVENUE (Street-level traffic simulator)  
- SOUND (Regionwide-level traffic simulator)  
- Operational evaluation system for 3 ring roads in Tokyo metro area  
- Development of simulation models for various mobilities (PMV etc.)  

**Technology**  

**Science**