

13th TSU (Transport Studies Unit) Seminar User-oriented measurement of travel time reliability: concepts and applications

(The 6th International Seminar of Committee of Infrastructure Planning and Management, JSCE in FY2013)

Date: September 12th (Thu.) 2013

Time: 17 : 00-18 : 00

Venue: Tokyo Tech. Ookayama Campus, Midorigaoka-5 bldg., 1F, Meeting Room
(東工大・大岡山キャンパス 緑が丘5号館(創造プロジェクト館) 1F 会議室)

<http://www.plan.cv.titech.ac.jp/fukudalab/contact/>

*Prior expression of interest to Assoc. Prof. Fukuda by email would be appreciated.

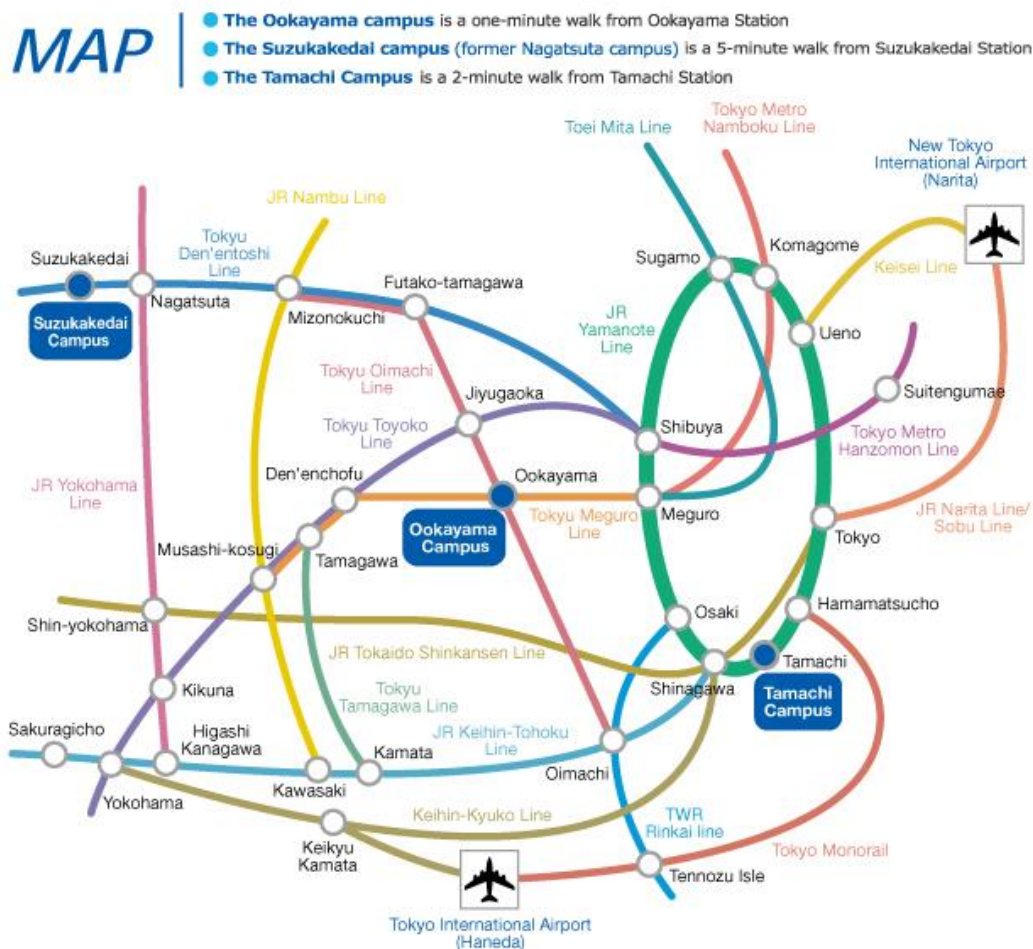
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Programme :

17 : 00-18 : 00 Dr. Ioannis Kaparias (Lecturer, City University of London)

<http://www.city.ac.uk/engineering-maths/staff/dr-ioannis-kaparias>

User-oriented measurement of travel time reliability: concepts and applications



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Dr. Ioannis Kaparias
(Lecturer, City University of London)

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Abstract

This study introduces a new user-oriented measure of travel time reliability for implementation in the dynamic routing algorithm of an intelligent car navigation system. The measure is based on the log-normal distribution of travel time on a link and consists of two indices corresponding to the extreme values of the distribution, such that they reflect the shortest and longest travel times that may be experienced on the link. Through a series of mathematical manipulations, the indices are expressed in terms of the characteristic values of the speed distribution on the link. An expression relating the indices of a route and the indices of the individual links forming it is derived. The accuracy of the measure is then assessed through a field experiment and the results are presented.



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