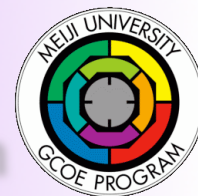




# Meiji University Global COE Program

## 15<sup>th</sup> Mathematical Sciences based on Modeling, Analysis and Simulation seminar



Date: October 14, 2009, 16:30~17:30

Location: Meiji Univ. Ikuta Campus, Build 2 Annex A, Room A205

**Kazumichi Ohtsuka** (Univ. of Tokyo,  
Research Center for Advanced Science and Technology)

**Title : New type of evaluation method for level  
of service criterion using financial theory**

Abstract : The new type index on the level of service (LOS) criterion is proposed. To identify values of the LOS, we apply the net present value (NPV) method to congestion dynamics formulated by the Logistic equation. We have succeeded in measuring values of infrastructures on the basis of personal available space discounted by waiting time periods. It allows us to rate infrastructures quantitatively including passenger satisfaction. We also compare the theory with the LOS values from raw data observed at immigration counters in an airport. The results statistically reflect intertemporal satisfaction factors that the conventional LOS criterion does not take into consideration.

**Everyone is welcome to attend the MAS seminar.**

Meiji institute for Advanced Study of Mathematical Science (<http://www.mims.meiji.ac.jp>)  
(Organizers: M. Mimura, D. Ueyama, Y. Wakano and K. Ikeda)

MAS seminar is partly supported by Meiji University Global COE program “Formation and Development of Mathematical Sciences Based on Modeling and Analysis” (<http://gcoe.mims.meiji.ac.jp/>), the Grant-in-Aid for Scientific Research (S), “Mathematical Theory of Nonlinear-Non-equilibrium Reaction-Diffusion Systems” by M. Mimura (<http://nnrds.math.meiji.ac.jp/>).

Access: 10 minutes on foot from Ikuta St. Odakyu line,  
Or 10 minutes by bus No. 13「明治大学正門前」, get off at the last stop.  
See [http://www.meiji.ac.jp/koho/campus\\_guide/](http://www.meiji.ac.jp/koho/campus_guide/) for details.