

Session 3: Dr. Varameth Vichiensan

Presentation entitled: “Empirical study of land use/transportation interaction in Bangkok”

Biographic Data of Speaker



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Research Interests:

Integrated Land use/Transportation Modeling
Discrete Choice Modeling in Location Analysis
Spatial Econometrics

Educations:

Ph.D. in Civil Engineering, Tohoku University, Japan, 2003
M.Eng. in Civil Engineering, Asian Institute of Technology, Thailand, 1998
B.Eng. in Civil Engineering, Sirindhorn International Institute of Technology,
1996

Scholarship & Award:

1998 - 2002 Japanese Government Scholarship (Monbusho Scholarship)
(Full-term scholarship for Ph.D. study at Tohoku University, Japan)

1998 Hisamatsu Best Student Award
(Excellent academic award upon graduation, Asian Institute of
Technology, Thailand)

1996 - 1998 Royal Thai Government Scholarship

(For Master's study at Asian Institute of Technology, Thailand)

1992 - 1996 Thai Obayashi Corporation Scholarship
(For undergraduate study at SIIT, Thammasat University)

Employment Positions

2004 - Present Lecturer, Kasetsart University, Thailand
2004 Engineer, Pacific Consultants International (Thailand) Co., Ltd.
2002 - 2004 Lecturer, Tohoku University, Japan
1996 Research and Teaching Assistant, Thammasat University,
 Thailand

Selected Publications

- Vichiensan, V. (2009) "Influence of Urban Rail Transit on House Value: Spatial Hedonic Analysis in Bangkok" Submitted for consideration of publication in *Journal of the Eastern Asian Society for Transportation Studies*, Vol. 8.
- Miyamoto, K., Vichiensan, V., Miura, R., Tsuchida, K. (2009) Measures of Goodness-of-Fit between Spatial Distributions. *Proceeding of the 11th International Conference on Computers in Urban Planning and Urban Management (CUPUM)*, Hong Kong.
- Miyamoto, K., Sugiki, N., Kitazume, K., Suzuki, A., and Vichiensan, V. (2009) An Estimation Method of Household Micro-Data for the Base Year in Land-Use Micro Simulation. *Proceeding of the 11th International Conference on Computers in Urban Planning and Urban Management (CUPUM)*, Hong Kong.
- Vichiensan, V. (2008) "Urban Mobility and Employment Accessibility in Bangkok: Present and Future" *Proceeding of the 13th CODATU Conference*, November 2008, Ho Chi Minh City, Vietnam.
- Vichiensan, V. (2007) "Dynamics of Urban Structure in Bangkok based on Employment Cluster and Commuting Pattern" *Journal of the Eastern Asian Society for Transportation Studies*, Vol. 7, 1559-1574.
- Alpokin, P., Black, J., Kato, H., and Vichiensan, V. (2007) "Poly-centric Employment Formation in Mega-Cities: Analysis from APEC-TR Collaborative Research" *Journal of the Eastern Asian Society for Transportation Studies*, Vol. 7, 1446-1459.
- Miyamoto, K., Vichiensan, V., Sugiki, N., and Kitazume, K. (2007) "Applications of RURBAN Integrated with a Transport Model in Detailed Zone System" *Proceeding of the 11th World Conference on Transport Research*, June 2007, Berkeley, CA, USA.

- Vichiensan, V., Miyamoto, K., and Rujopakarn, W. (2007) "Land Use/Transportation Interaction in Bangkok: Impact of Urban Rail Transit and Pilot Model Development" *Compendium of Papers, the 86th TRB Annual Meeting*, January 2007, Washington D.C., USA.
- Anukalaya, A., Rongwiriyanitch, T., Vichiensan, V., and Sunyaluck-ruechai (2006) "NGV Demand of Household Travelers in Bangkok Outskirt" *Chulalongkorn Review*, Vol.18, No.72 pp. 81 - 90 (in Thai)
- Vichiensan, V., Paez, A., Kawai, K., and Miyamoto, K. (2006) "Non-Stationary Spatial Interpolation Method for Urban Model Development" *Transportation Research Record: Journal of Transportation Research Board*, No.1977, pp.103-111.
- Miyamoto, K., Vichiensan, V., Sugiki, N. and Kitazume, K. (2006) Applications of Operational Urban Models in the World with emphasis on Land-Use Models. *Proceedings of Infrastructure Planning*, Vol. 33, June 2006, Japan Society of Civil Engineers. (In Japanese)
- Sugiki, N., Miyamoto, K., Kitazume, K., and Vichiensan, V. (2006) Applications of A Land-Use and Transport Model with Decision Support System for Sapporo Metropolitan Area. *Proceedings of Infrastructure Planning*, Vol. 33, June 2006, Japan Society of Civil Engineers. (In Japanese)
- Vichiensan, V., Miyamoto, K., Tokunaga, Y. (2005) Mixed Logit Modeling Framework with Structuralized Spatial Effects: A test of Applicability with Area Unit Systems in Location Choice Analysis. *Journal of the Eastern Asian Society for Transportation Studies*, Vol. 6, pp. 3789 – 3802.
- Vichiensan, V., Miyamoto, K., Roychansyah, M. S., Tokunaga, Y. (2005) Evaluation System of Policy Measure Alternatives for a Metropolis based on TRANUS from the View Point of Sustainability. *Journal of the Eastern Asian Society for Transportation Studies*, Vol. 6, pp. 3803-3818.
- Miyamoto, K., Vichiensan, V., Kitazume, K., and Sugiki, N. (2005). Theoretical Rebuilding of Rurban and the Application to A Metropolis with Detailed Area Unit of Analysis. *Proceeding of the 9th International Conference on Computers in Urban Planning and Urban Management (CUPUM)*, London, United Kingdom.
- Vichiensan, V. (2004) "The Interaction with Land Use" In *Urban Transport and the Environment: An International Perspective*. Edited by Nakamura, H., Hayashi, Y., and May, A. The Netherlands: Elsevier.
- Vichiensan, V., Miyamoto, K., Tokunaga, Y., and Shimomura, N. (2004) "Discrete Choice Model with Structuralized Spatial Effects for Location Analysis: A Test of Applicability With Zone and Area Unit Systems". *Proceedings of the 10th World Conference on Transportation Research (WCTRS)*, Istanbul, Turkey (CD-ROM).
- Miyamoto, K., Vichiensan, V., Shimomura, N., and Paez (2004) A Discrete Choice Model with Structuralized Spatial Effects for Location Analysis, *Transportation Research Record: Journal of Transportation Research Board.*, No. 1898 , 183-190.

- Vichiensan, V., Miyamoto, K., and Kitazume, K. (2003) "Determination of a Desirable Time Step for Quasi-Dynamic Urban Modeling with Sapporo Test Bed." *International Journal of Urban Sciences*, Vol.7, No.1, 102-117.
- Vichiensan, V., Miyamoto, K., Sato, K., and Kitazume, K. (2003) "Introduction of Land Use Model to Improve Travel Demand Forecasting in a Metropolitan Area: A Case of TRANUS Application to Sapporo." *Journal of the Eastern Asian Society for Transportation Studies*, Vol.5, (CD-ROM).
- Vichiensan, V., Miyamoto, K., Sato, K., and Tsukahara, T. (2002). "Significance and Uncertainty of Land-Use Model in Travel Demand Forecast: An Empirical Study with TRANUS Sapporo." *Proceeding of the 27th JSCE Infrastructure Planning Conference*, Morioka, Japan, (CD-ROM).
- Vichiensan, V., Miyamoto, K., and Shizukuishi, K. (2001) "GIS Test Bed Building for Land use and Transportation Models." *Proceeding of the 7th International Conference on Computers in Urban Planning and Urban Management (CUPUM)*, Honolulu, USA, (CD-ROM).
- Miyamoto, K., and Vichiensan, V. (2001). "Interface Specifications between Operational Land-use and Transportation Models/Modules." *Proceedings of the 9th World Conference on Transportation Research (WCTRS)*, Seoul, Korea, (CD-ROM).
- Miyamoto, K., and Vichiensan, V. (2000) "Review of Land-use Model Applications in Transportation Demand Forecasting." *Proceedings of the 9th International Conference CODATU IX*, Mexico City, Mexico, 449-454.