Analysis and Planning Based on GA and GIS for Location of Regional Facilities in Japan
(This seminar is organized in conjunction with MOU Signing, Tokyo Metropolitan University)

Thursday, 27 March 2015, Friday
Time: 10.00am – 11.30am (Refreshment will be provided)
Venue: Seminar Room, Centre for Sustainable Asian Cities (CSAC),
SDE1-04-24, School of Design and Environment, NUS
Convener: Prof Wong Nyuk Hien

Abstract
The facility location problem has attracted attention not only in the field of OR (Operation Research) but also urban planning. Application of theoretical models developed in OR for the planning of regional facilities has often yielded suggestive and interesting results. This lecture introduces our research projects on analysis and planning of regional facilities such as municipal schools and day-care centers for the elderly as well as private food facilities in the suburban and rural area of Japan, where municipalities are confronted with both the lack of facilities for the elderly and the difficulties in maintaining the facilities. Theoretical models of optimal facility location and von Thünen-Alonzo theory are applied to the analysis and planning utilizing GA (Genetic Algorithm) and GIS (Geographical Information System).

Presenter
Professor Tohru YOSHIKAWA is currently a professor and deputy dean of Graduate School of Urban Environmental Sciences, Department of Architecture and Building Engineering, Tokyo Metropolitan University, Japan. He obtained his PhD from the University of Tokyo in 1992. His main research area is quantitative urban analysis using GIS, especially land use analysis, commercial facility location analysis and optimum location analysis of municipal facilities. Over the years, Professor YOSHIKAWA has worked on various projects funded by the Ministry of Education, Culture, Sports, Science and Technology of Japan and by Tokyo Metropolitan Government on building technology for sustainable cities.

Please register here by 20 March 2015.

REGISTRATION DETAILS
Admission is FREE and all are welcome. For enquiries, please contact Ms Amanda at 6516 4836.
Disclaimer: The organizer reserves the right to cancel or postpone the event due to unforeseen circumstances.
Location Map

**Car Parking**
SDE2 and SDE3 [School of Design and Environment]
E3A [Faculty of Engineering]
CP15 and CP16 [Faculty of Arts and Social Science]

**Note:**
Payment by cashcard only
Park in white lots only
Do not park at reserved lots with standup signs, fire engine hard standing areas, handicap lots or red lots
Unauthorized vehicles parking at these lots will be wheel clamped. The fees to unclamp is S$107.00

**Buses**
Along Clementi Road: Bus nos. 33, 96*, 188
Along Kent Ridge Crescent: Bus nos. 95, 96*, 151
(*Bus no. 96 may be boarded at Clementi Interchange, next to Clementi MRT station)
Campus map: [http://www.nus.edu.sg/campusmap/](http://www.nus.edu.sg/campusmap/)