Multi-criteria Exploration and Decision Making

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Speaker
Dr Benny Raphael is an Assistant Professor at the National University of Singapore, Department of Building. His specialization is in the application of Information Technology to engineering design and construction management. The book “Fundamentals of Computer Aided Engineering” which he co-authored with Prof. Ian Smith of EPFL, Switzerland is used as a text book in many Universities including CMU and EPFL. He has applied optimization techniques to many areas such as structural design, building automation and control, bridge monitoring, etc. He was part of the research team of the BCA Zero Energy Building project which won the Green mark Platinum award.

Abstract
Almost every decision in design and management requires evaluation of multiple criteria. Selecting a compromise solution with the best trade-offs among conflicting objectives is not easy. In this talk, fundamental concepts related to multi-criteria decision making will be introduced. Existing methods for multi-criteria decision making such as Analytic Hierarchy Process (AHP), Pareto filtering and Promethee will be briefly discussed. Then a new methodology and a software tool developed by the speaker will be presented. Examples in the areas of green building design and construction management will be used for illustration.

Date : 21 November 2012, Wednesday
Time : 4.30pm to 6.30pm
Venue : SDE3 Level 4, LR427
National University of Singapore

User friendly multi-criteria decision making software will be distributed. There will be opportunities for networking with participants from the industry and refreshments will be provided.

[Admission is Free]
Please register here:
https://docs.google.com/spreadsheet/viewform?formkey=dE41VTdpWGIWMmNvdU9TMDRxWUREWkE6MQ

For enquiries please contact Chelvi at 65165150 or email: bdg_seminar@nus.edu.sg

Disclaimer: The organizer reserves the right to cancel or postpone the event due to unforeseen circumstances

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