NUS Department of Mechanical Engineering

The Mechanical Engineering Department cordially invites you to our:

DEPARTMENT SEMINAR

Topic:	**Design Science and Optimization: Analysis-based Design of Products and Systems**
Speaker:	**Professor Panos Y. Papalambros, University of Michigan**
Date:	**7 August 2012**
Time:	**10.30 am – 12.00 pm**
Venue:	**EA-06-02** *(map of NUS can be found at http://www.nus.edu.sg/campusmap/)*

Abstract

Design Science studies the creation and embedding of artifacts in our lives and the attendant consequences for users and society, integrating analysis techniques from the engineering, behavioral, and social sciences. This talk presents an analytical approach to product and system design based on the mathematical optimization paradigm, along with its implications for design research and teaching. A brief overview of the Design Science PhD Program at the University of Michigan and the current scope of the ASME Journal of Mechanical Design will be also offered.

About the Speaker

Panos Y Papalambros is the Donald C. Graham Professor of Engineering and the Executive Director of Integrative Systems & Design at the University of Michigan. He is also a Professor of Mechanical Engineering, Professor of Architecture, and Professor of Art and Design. He holds a diploma in mechanical and electrical engineering from the National Technical University of Athens and M.S. and PhD degrees in mechanical engineering from Stanford University. He is co-author of the textbook Principles of Optimal Design: Modeling and Computation (1988, 2000). His research and teaching interests include design science, design optimization, and product and systems design. He is the founding director of the interdisciplinary Design Science Doctoral Program at the University of Michigan, and serves as Editor of the ASME Journal of Mechanical Design.

****Admission is Free. All are welcome to attend.****