

ITEM DISTINGUISHED SPEAKER SERIES

A Vision for Excellence in Industrial Engineering and Management

Dr. Natarajan Gautam

ATRC 101

2:00 - 3:00 PM, 04/03/2013 (Wednesday)



Abstract The objective of the Head of the School of Industrial Engineering and Management is to foster and sustain *excellence* among the School's faculty, staff and students. In this seminar the candidate will discuss strategies to address this objective beginning by describing a *vision* for the School. Subsequently, he will elaborate on a *plan* to attain the vision, describe the state of the field, and identify trends and emerging areas. The plan would include all aspects of the School's activities, namely research, education, and service. In particular, the candidate will identify opportunities for the School to address the societal grand challenges leveraging upon the School's unique strengths: analytical, computational and people-oriented skills. The seminar would conclude with a brief description of the candidate's research program and a short conference-style presentation of some of his recent results for managing non-homogeneous multi-class queues with an application to data-center energy conservation.

Biosketch Dr. N. Gautam is an associate professor in the Department of Industrial and Systems Engineering with a courtesy appointment in the department of Electrical and Computer Engineering at Texas A&M University. Prior to joining Texas A&M University in 2005, he was on the Industrial Engineering faculty at Penn State University for eight years. He received his Ph.D. and M.S. in Operations Research from the University of North Carolina at Chapel Hill, and his B.Tech. in Mechanical Engineering from Indian Institute of Technology-Madras. Dr. Gautam's interests are in optimal design, control and performance evaluation of stochastic systems, with an emphasis on computer networks, energy and biology. He directs the Group for Research on Engineering ENergy-efficiency (GREEN) housed in the Laboratory for Energy-Sustainable Operations. Dr. Gautam's research articles have appeared in journals published by INFORMS, IIE, IEEE and ACM. He has worked on multi-disciplinary projects funded by NSF, AFOSR, DARPA, ONR and U.S. Marine Corps. Dr. Gautam received the Outstanding Young Industrial Engineer Award (education category) bestowed by IIE in 2006. In addition, he has won several teaching and best paper awards. Dr. Gautam serves as an associate editor for IIE Transactions, INFORMS Journal on Computing and OMEGA.



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