



Transportation Seminar Series

*Friday, September 18, 2009
4 - 5 p.m. in 212 O'Brien Hall*

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Estimation of Demand and Capacity in Air Traffic Management

Abstract: The role of traffic flow management in the aviation system is the efficient allocation of airspace and airport resources. The capacity and demand associated with these resources are difficult to model since they depend on a combination of automation, procedures and people. These models are used to optimize traffic flow management and make operational decisions. This talk covers some of the problems and approaches to model demand and capacity.

Bio: Banavar Sridhar is NASA Senior Scientist for Air Transportation Systems. His research interests are in the application of modeling and optimization techniques to aerospace systems. Dr. Sridhar received the 2004 IEEE Control System Technology Award for his contributions to the development of modeling and simulation techniques for multi-vehicle traffic networks and advanced air traffic system. He led the development of traffic flow management software, Future ATM Concepts Evaluation Tool (FACET), which received the NASA Software of the Year Award in 2006 and the AIAA Aerospace Software Engineering Award in 2009. He is a Fellow of the IEEE and the AIAA.

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