

**Thursday, January 15**

Scaife Hall Auditorium  
Room 125

4:30 p.m.

Refreshments at 4:00 p.m.



**Professor Jon Tsitsiklis, Ph.D.**

M.I.T. Electrical Engineering

**John N. Tsitsiklis** received the B.S. degree in Mathematics (1980), and the B.S. (1980), M.S. (1981) and Ph.D. (1984) degrees in Electrical Engineering, all from M.I.T., where he is currently a Clarence J Lebel Professor of Electrical Engineering. He has also served as a co-director of the MIT Operations Research Center (2002-05).

His research interests are in the fields of systems, optimization, communications, control, and operations research. He has coauthored four books and more than a hundred journal papers in these areas. His awards include an Outstanding Paper Award by the IEEE Control Systems Society (1986), the M.I.T. Edgerton Faculty Achievement Award (1989), the Bodossakis Foundation Prize (1995), and the INFORMS/CSTS prize (1997). He is a Fellow of IEEE and INFORMS, a member of the National Academy of Engineering, and has been a member of the National Council on Research and Technology in Greece. In 2008, he was conferred the title of Doctor honoris causa, from the Universite Catholique de Louvain (Belgium).

## Gossiping, Averaging, and Consensus

**Motivated** by a variety of contexts, including **distributed optimization, multi-agent coordination, economics, sociology, and animal behavior**, there has been much recent activity on consensus algorithms whereby a set of agents keep forming convex combinations of their own tentative decisions with those of their neighbors. We review the history of such methods, application contexts, and **results on convergence and speed of convergence** to a common decision.

### ECE Seminar Hosts

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