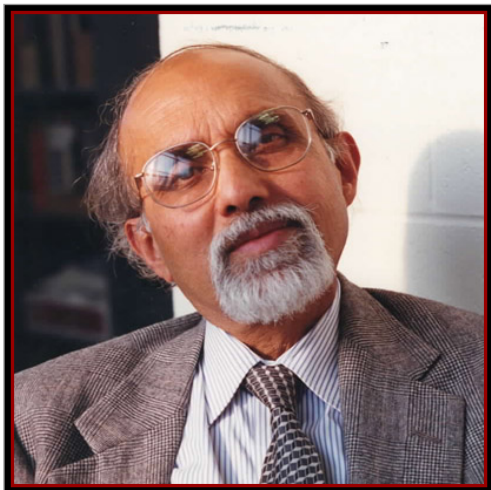


THURSDAY
OCTOBER 27, 2005

Scaife Hall Auditorium
Room 125

4:00 PM
Refreshments—3:30 PM



PROFESSOR SANJOY K. MITTER
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Sanjoy K. Mitter received his Ph.D. degree from the Imperial College of Science and Technology in 1965. He taught at Case Western Reserve University from 1965 to 1969. He joined MIT in 1969 where he has been a Professor of Electrical Engineering since 1973. He was the Director of the MIT Laboratory for Information and Decision Systems from 1981 to 1999. He has also been a Professor of Mathematics at the Scuola Normale, Pisa, Italy from 1986 to 1996. He has held visiting positions at Imperial College, London; University of Groningen, Holland; INRIA, France; Tata Institute of Fundamental Research, India and ETH, Zürich, Switzerland. He was the McKay Professor at the University of California, Berkeley in March 2000, and held the Russell-Severance-Springer Chair in Fall 2003. He has held visiting positions in several American universities. He is a Fellow of the IEEE and a Member of the National Academy of Engineering. He is the winner of the 2000 IEEE Control Systems Award. He was elected a Foreign Member of Istituto Veneto di Scienze, Lettere ed Arti in 2003. His current research interests are Communication and Control in a Networked Environment, the relationship of Statistical and Quantum Physics to Information Theory and Control and Autonomy and Adaptiveness for Integrative Organization.

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For more information:
<http://www.ece.cmu.edu/seminar>

THE CONVERGENCE OF COMMUNICATION, CONTROL, AND COMPUTATION

Recent applications such as Sensor Networks, Control over Networks, Real-time Embedded Systems have necessitated a rethinking of the fields of Communication, Control, and Computation, not as isolated disciplines but in a more unified fashion.

In this talk I try to suggest how existing paradigms of Control, Communication, and Computation need to be modified in order to create a new theoretical framework which can address issues arising in the technological applications mentioned above.