

THURSDAY
FEBRUARY 9, 2006

Scaife Hall Auditorium
Room 125

4:00 PM
Refreshments—3:30 PM



PRAMOD VARSHNEY
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Pramod K. Varshney received the B.S. degree in electrical engineering and computer science (with highest honors), and the M.S. and Ph.D. degrees in electrical engineering from the University of Illinois at Urbana-Champaign in 1972, 1974, and 1976 respectively. Since 1976 he has been with Syracuse University, Syracuse, NY where he is currently a Professor of Electrical Engineering and Computer Science and the Research Director of the New York State Center for Advanced Technology in Computer Applications and Software Engineering. His current research interests are in distributed sensor networks and data fusion, detection and estimation theory, wireless communications, image processing, radar signal processing and remote sensing. He is an IEEE Fellow and has received numerous awards. He serves as a distinguished lecturer for the AES society of the IEEE. He was the President of International Society of Information Fusion during 2001.

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

SIGNAL DETECTION IN SENSOR NETWORKS

Interest in the field of sensor networks has grown very rapidly with a large number of potential applications. These networks are made up of a large number of sensors with limited capabilities. One of the main functions of sensor networks is to detect the presence or absence of an object or an event. This detection is carried out based on distributed detection theory.

This talk will present fundamentals of distributed detection theory followed by its application to sensor networks. Some recent results on this topic will also be discussed.