

**THURSDAY
SEPTEMBER 16, 2004**

**Scaife Hall Auditorium
Room 125**

**4:00 PM
Refreshments—3:30 PM**



Vijayakumar Bhagavatula
ACTING DEPARTMENT HEAD
PROFESSOR OF ECE
CARNEGIE MELLON UNIVERSITY

Vijayakumar Bhagavatula (Prof. Kumar) received his B.Tech., and M.Tech., degrees in Electrical Engineering from Indian Institute of Technology, Kanpur and his Ph.D. in Electrical Engineering from Carnegie Mellon University, Pittsburgh. Since 1982, he has been a faculty member in the Department of Electrical and Computer Engineering (ECE) at Carnegie Mellon where he is now a Professor and the Acting Department Head. Professor Kumar also served as the Associate Department Head of the ECE Department from 1994 to 1996. Professor Kumar's research interests include Automatic Target Recognition Algorithms, Biometric Recognition Methods and Coding and Signal Processing for Data Storage Systems. He is currently leading coding and signal processing research efforts in the Data Storage Systems Center (DSSC) and the biometrics research efforts in CyLab at Carnegie Mellon. His publications include one book entitled *Correlation Pattern Recognition* (co-authored with Dr. Abhijit Mahalanobis and Dr. Richard Juday, being published by Cambridge University Press), seven book chapters and about 350 technical papers in these areas in various conference proceedings and journals. He served as a Pattern Recognition Topical Editor for the Information Processing division of *Applied Optics*. He guest-edited the September 1990 special issue of *Optical Engineering* devoted to *Optical Pattern Recognition*, the April 2001 issue of *IEEE Journal of Selected Areas of Communication* (JSAC) devoted to *Signal Processing for High-Density Storage Channels* and the January 2004 special issue of *IEEE Signal Processing* magazine devoted to *iterative soft processing*. Professor Kumar has served on many conference program committees including the SPIE conference on *Optical Pattern Recognition*, the *Optical Data Storage* (ODS) conference, *The Magnetic Recording Conference* (TMRC), the *International Symposium on Optical Memories* (ISOM), the *Global Communications Conference* (GLOBECOM). Professor Kumar was a co-chair of the 2003 Optical Data Storage conference technical program committee and a co-general chair of the 2004 Optical Data Storage conference. Professor Kumar is a senior member of IEEE, a Fellow of SPIE - The International Society of Optical Engineering, and a Fellow of Optical Society of America (OSA). He is listed in various professional Who's Whos including Marquis' *Who's Who in Science and Engineering* and *Who's Who in the World* and in the *American Men and Women of Sciences*. In 2003, Prof. Kumar received the Eta Kappa Nu award for *Excellence in Teaching* in the ECE Department at CMU and the Carnegie Institute of Technology's *Dowd Fellowship* for educational contributions.

OVERVIEW OF ECE

This talk will provide a brief overview of the Electrical and Computer Engineering (ECE) Department, with particular focus on some of the recent changes.

Some time will also be devoted to providing overviews of select research efforts in the Department. Professor Kumar will also be available to answer questions related to the ECE Department.

For more information:

<http://www.ece.cmu.edu/seminar>

James Hoe, ECE Seminar Host

jhoe@ece.cmu.edu