

2014 LECTURE SERIES AT THE LABORATORY FOR TELECOMMUNICATION SCIENCES (LTS)

“Signal Processing Research in the ECE Department”

BY RAMA CHELLAPPA, PROFESSOR AND CHAIR,
UMD ELECTRICAL AND COMPUTER ENGINEERING

July 31, 2 p.m.

LTS Auditorium, 8080 Greenmead Drive

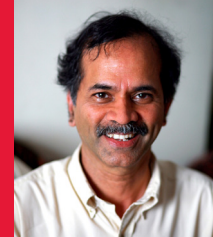
Abstract:

The Department of Electrical and Computer Engineering at UMD is one of the top departments in the area of signal and image processing.

In this talk, I will provide an overview of ongoing research in sparse representations for signals and images, information security, bio-inspired signal processing, speech processing, and computer vision.

I will also discuss recent progress made in developing robust methods for still image and video-based facial recognition. We recently led a five-year effort to make facial recognition possible at distances beyond 100 meters.

We are also working to develop active user authentication for mobile platforms such as smartphones. We are constructing fusion algorithms for these platforms to allow for continuous authentication of the user based on the user's screen fingerprint, touch signature and face.



Biography:

Rama Chellappa is a Minta Martin Professor of Engineering and chair of UMD's Department of Electrical and Computer Engineering.

Chellappa received the K.S. Fu Prize from the International Association of Pattern Recognition. He is a recipient of the Society, Technical Achievement and Meritorious Service Awards from the IEEE Signal Processing Society, and received the Technical Achievement and Meritorious Service Awards from the IEEE Computer Society.

Chellappa is a Golden Core Member of the IEEE Computer Society, has served as a distinguished lecturer of the IEEE Signal Processing Society, and as president of the IEEE Biometrics Council, and holds four patents.