

1

School of Electrical Engineering and Computer Science University of Central Florida

Biometric Recognition: How Do I Know Who You Are?

Dr. Anil Jain Michigan State University

Biometrics refers to the automatic identification (or verification) of an individual (or a claimed identity) by using certain physiological or behavioral traits associated with that person. By using biometrics, it is possible to establish an identity based on who you are, rather than by what you possess (e.g., an ID card) or what you remember (e.g., a password). Current biometric systems make use of fingerprints, hand geometry, iris, face, voiceprint and gait to establish a person's identity. While biometric systems have limitations, they are being deployed in a number of applications including computer logins, grocery stores, banks, Disney Parks and international border crossings (e.g., US-VISIT program). The successful implementation of these systems does not imply that biometrics is a solved problem. There is a significant room to improve the performance of these systems. We will present challenges in designing robust and secure biometric systems, state-of-the-art recognition performance and fusion strategies for multimodal biometric system.

2:00pm, November 6, 2006 Key West 218CD, Student Union

http://www.eecs.ucf.edu/~vision Supported by the Dean of the College of Electrical Engineering and Computer Science.



Anil Jain is a University Distinguished Professor at Michigan State University. His research interests include statistical pattern recognition, computer vision and biometric authentication. He received awards for best papers in 1987 and 1991 from the Pattern Recognition Society and received the 1996 IEEE Transactions on Neural Networks Outstanding Paper Award. He served as the Editor-in-Chief of the IEEE. He is a Fellow of the AAAS, SPIE, IEEE, ACM, and IAPR. He has received a Fulbright Research Award, a Guggenheim fellowship, the Alexander von Humboldt Research Award and the 2003 IEEE Computer Society Technical Achievement Award. He holds six patents and is the author of several books including Handbook of Multibiometrics, (Springer 2006), Handbook of Face Recognition (Springer 2005), Handbook of Fingerprint Recognition (Springer 2003), and Algorithms for Clustering Data (Prentice-Hall, 1988).