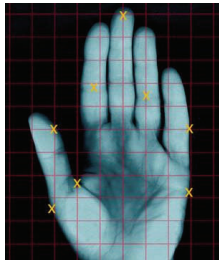
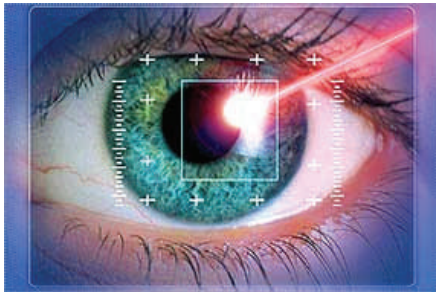


Learn About:

- Biometric recognition
- Emerging applications in biometrics
- Fingerprint and palmprint matching
- Fingerprint individuality
- Face recognition
- Matching and retrieval of scars, marks and tattoo (SMT) images.



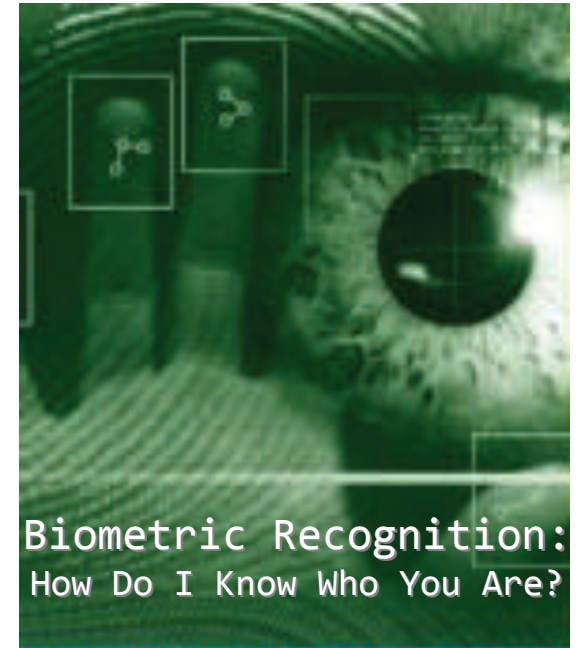
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UNIVERSITY OF NORTH TEXAS ELECTRICAL ENGINEERING

Distinguished Lecture Series



April 10, 2009
11:00 AM
RM. B155
Discovery Park

Speaker: Dr. Anil Jain,
Distinguished Professor
Department of Computer Science and
Engineering, Michigan State University

Abstract:

Should Alice be allowed to enter the country? Is Bob entitled to access the database? Has John been convicted before? Is Charlie the real owner of the credit card? Every day, a variety of organizations pose questions such as these about the *identity* of individuals. An emerging identification technology that is being increasingly adopted to identify individuals is *biometric recognition* - automatic person recognition based on anatomical or behavioral characteristics such as fingerprint, face, iris and voice. Biometrics allows us to confirm or establish a person's identity based on *who he is*, rather than by *what he possesses* (e.g., ID card) or *what he remembers* (e.g., password). It is, therefore, not surprising to see biometrics permeating our society (laptops, mobile phones, border crossings, national ID cards and even Disney parks). Biometrics is not a new idea. Pioneering work by Faulds, Galton and Henry over 100 years ago established that each print of a finger exhibits a unique pattern that persists over time. This set the stage for the development of automatic fingerprint identification systems (AFIS) that are now used by almost every law enforcement organization worldwide. The success of fingerprints in law enforcement coupled with growing concerns related to homeland security, financial fraud and identity theft has generated a renewed interest in biometrics. This talk will present an overview of biometric recognition, emerging applications and our ongoing research on (i) fingerprint and palmprint matching, (ii) fingerprint individuality, (iii) face recognition and (iv) matching and retrieval of scars, marks and tattoo (SMT) images.

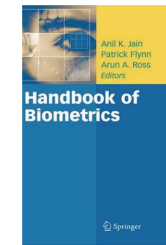
About the Speaker:



Anil Jain is a University Distinguished Professor in the Department of Computer Science at Michigan State University. His research interests include pattern recognition, computer vision and biometric recognition. He received the K.S. Fu Prize and Guggenheim, Humboldt, Fulbright, IEEE Computer Society Technical Achievement and IEEE Wallace-McDowell awards. He is a Fellow of the ACM and IEEE and served as the Editor-in-Chief of the IEEE Transactions on Pattern Analysis and Machine Intelligence. Holder of six patents in the area of fingerprints, he is the co-author of a number of books, including Handbook of Biometrics (2007), Handbook of Multibiometrics (2006), Handbook of Face Recognition (2005), Handbook of Fingerprint Recognition (2003) and Algorithms for Clustering Data (1988). He served on The National Academies committees on *Whither Biometrics* and *Improvised Explosive Devices* and is a member of the Defense Science Board.

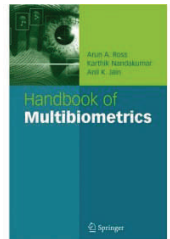
For More Information:

<http://www.cse.msu.edu/~jain/>



Handbook of Biometrics
Jain, Anil K.; Flynn, Patrick; Ross, Arun A. (Eds.) 2008, ISBN: 978-0-387-71040-2

Handbook of Multibiometrics
Series: International Series on Biometrics, Vol. 6 Ross, Arun A., Nandakumar, Karthik, Jain, Anil K.
ISBN: 978-0-387-22296-7



Handbook of Face Recognition
Editors: Stan Z. Li and Anil K. Jain. Springer, New York.
ISBN# 0-387-40595-x.