

# *Biometric Consortium 2005 Conference*

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**Topic:** NIST Fingerprint Image Quality

**Abstract:** Automatically and consistently determining the quality of a given biometric sample for identification and/or verification is a problem with far reaching ramifications. Knowledge of biometric samples' quality prior to matching can be used to improve the acquisition and operation of a biometric system. This talk presents a novel measure of fingerprint image quality, which can be used to estimate fingerprint match performance.

**Biography:** Elham Tabassi is a staff member at National Institute of Standards and Technology working on various biometric research projects including biometric sample quality, fusion, and performance assessment. She developed the NIST Fingerprint Image Quality (NFIQ), which has been adopted by FBI to assess quality of slap fingerprints. In addition Biometric Specification for Personal Identity Verification (PIV) has mandated the use of NFIQ to guide a real time quality assessment and reacquisition of fingerprint images.

Elham Tabassi received her Master of Science Degrees in Electrical Engineering from Santa Clara University in 1994. She received the Department of Commerce Gold Medal in 2003 for her work on biometric system performance assessment. Her research interests are in biometrics technology, biometric sample quality, pattern recognition, data mining, and signal processing.