

Biometric Consortium 2005 Conference



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Topic: Moderator of NIST Session

Abstract: NIST currently has a wide-ranging program in testing, evaluation and standards for biometrics, including finger, face, and iris. NIST's work in this area supports several statutory and Presidential directives, including the Patriot Act, the Enhanced Border Security Act, and Homeland Security Presidential Directives 11 and 12. To support NIST's fingerprint tests, large-scale operational data have been obtained, covering 128 million fingerprint images from 18 million subjects. In addition to various vendor system tests, NIST has performed tests of the US VISIT IDENT system and the FBI IAFIS system. This session has presentations describing some of NIST's current projects, including vendor fingerprint Software Development Kit (SDK) testing, ANSI/NIST fingerprint standards, slap fingerprint segmentation evaluation, fingerprint image quality, meta-analysis of biometrics, Personal Identity Verification (PIV), biometrics and e-authentication, and NIST's biometric standards program.

Biography: Dr. Martin Herman is Chief of the Information Access Division, National Institute of Standards and Technology (NIST). He is responsible for the overall program in research, measurements, testing, and standards in information access technologies at NIST, including biometrics, speech processing and human language technologies, multimedia information access, information retrieval, image and video processing technologies, visualization and usability testing, human-computer and human-robot interfaces, smart spaces, and optical media testing. He has worked with the intelligence community, the homeland security and law enforcement communities, industry, and the research community on these topics.

Previously, he was Group Leader of the Perception Systems Group at NIST, where he performed research in robotics, robot vision, and automated manufacturing. He has also held a faculty appointment at Carnegie Mellon University, where he performed research in computer vision. He received a Ph.D. in computer science from the University of Maryland.

Dr. Herman has testified before the U.S Congress on biometrics (2005) and has served as a Member of the U.S. Delegation to the G-8 High Level Working Group on Biometrics (2003). In 2004, he was Principal Organizer of the International Meeting of Biometrics Experts. He serves on the International Advisory Board of CHIL (Computer in the Human Interaction Loop), on the NIST Strategic Working Group for Homeland Security, and on the National Science and Technology Council (NSTC) Subcommittee on Biometrics. He has also served on the Infectious Disease Informatics Working Committee and on the Human Computer Interface & Information Management (HCI&IM) Coordinating Group of the Interagency Working Group (IWG) on Information Technology Research and Development. In 2003, he shared in a group Gold Medal awarded by the Department of Commerce to the NIST biometrics team.