CHARLES L. WILSON

NBS/NIST: 1979-2006
INDUCTED: 2019

B: 1942, El Paso, Texas
D: 2019, Gaithersburg, Maryland

EDUCATION:
University of Texas, BS (Physics), 1964
University of Texas, MS (Physics), 1965

CITATION: For technical excellence in measurement science, pattern recognition, and device modeling; advancing semiconductor manufacturing; and pioneering biometrics (particularly fingerprint) technology benchmarks and standards, thereby strengthening our Nation's safety and security.

POSITIONS HELD AT NBS/NIST:
Manager, Device Modeling Group, Semiconductor Electronics Division, Electronics and Electrical Engineering Laboratory, 1979-1988
Manager, Image Group, Information Access Division, Information Technology Laboratory, 1988-2006

HONORS:
U.S. Department of Commerce Gold Medal (1983 and 2003)

MEMBERSHIPS:
IEEE
Biometrics Subcommittee, National Science and Technology Council, Office of Science and Technology Policy
Biometrics Interoperability and Evaluation (interagency working group)

PUBLICATIONS:
More than 70 publications and 2 patents including:
Wilson, C.L. and Blue, J.L., "Two-dimensional Finite Element Charge-sheet Model of a Short-channel MOS Transistor", *Solid-State Electronics*, Vol. 25, 461-477 (1982)
Wilson, Charles L., et al., *The First Census Optical Character Recognition Systems Conference*, NISTIR 4912 (January 1992)
Wilson, C.L., Candela, G.T., and Watson, C.I., "Neural Network Fingerprint Classification", *Journal of Artificial Neural Networks*, Vol. 1, No. 2 (1993)
Chellappa, R., Wilson, C.L., and Sirohey, S., "Human and Machine Recognition of Faces: A Survey", *Proceedings of the IEEE*, Vol. 83, No. 5, 705–740 (May 1995)
Tabassi, E. and Wilson, C.L., "A Novel Approach to Fingerprint Image Quality", *IEEE International Conference on Image Processing*, Vol. 2, No. 2, 37-40, Genoa, Italy (2005)