COMPUTER VISION DISTINGUISHED SPEAKER SERIES

School of Electrical Engineering & Computer Science
University of Central Florida

Event Recognition in Surveillance Video
The Challenge of Identity Maintenance

Dr. Larry Davis
University of Maryland

Recognition of complex activities from surveillance video requires tracking individuals and maintaining their identities across gaps in observation – for example, we might see one person placing a package down on a desk; if at a later time a different person takes the package away, then it is a possible theft; but if the same person takes it away, it does not represent a security violation. Identity maintenance has been traditionally addressed using appearance matching approaches – face and gait matching, or clothing appearance matching. I will discuss our research on computer vision and artificial intelligence problems associated with detecting people in crowded situations, tracking people through gaps in observation and recognition of safety and security violations in surveillance video.

2:00pm, November 5, 2007
Harris Engineering Center, Room 101
http://www.eecs.ucf.edu/~vision

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BIOGRAPHY



Larry S. Davis received his B.A. from Colgate University in 1970 and his M.S. and Ph.D. in Computer Science from the University of Maryland in 1974 and 1976 respectively. From 1977-1981 he was an Assistant Professor in the Dept of Computer Science at the University of Texas, Austin. He returned to the University of Maryland as an Associate Professor in 1981. From 1985-1994 he was the Director of the University of Maryland Institute for Advanced Computer Studies. He is currently a Professor in the Institute and the Computer Science Department, as well as Chair of the Computer Science Department. He was named a Fellow of the IEEE in 1997.

Prof. Davis is known for his research in computer vision and high performance computing. He has published over 100 papers in journals and has supervised over 20 Ph. D. students. He is an Associate Editor of the International Journal of Computer Vision and an area editor for Computer Models for Image Processing: Image Understanding. He has served as program or general chair for most of the field's major conferences and workshops.