UNIVERSITY OF CENTRAL FLORIDA

CENTER FOR RESEARCH IN COMPUTER VISION

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"Three C's of advanced iris biometrics: Crypts, Corneas and Contacts"

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ABSTRACT

As iris recognition products continue to enter the market and the research area matures, efforts to broaden the scope and capability of iris recognition are emerging. Research on recognition from less-constrained data with a wider diversity of subject attributes has created fertile ground for topical studies. In this presentation, we will motivate and discuss new work on:

1. Iris identification using crypt and anticrypt features that can be annotated by humans and therefore are of potential use in a forensic investigation context with humans in the loop.
2. Classification of ocular images with respect to the presence or absence of contact lenses.
3. Variations in the 3D shape of the cornea and the impact of such variations on iris appearance and recognition performance.

BIOGRAPHY

Patrick J. Flynn is Professor of Computer Science & Engineering and Concurrent Professor of Electrical Engineering at the University of Notre Dame. He received the B.S. in Electrical Engineering (1985), the M.S. in Computer Science (1986), and the Ph.D. in Computer Science (1990) from Michigan State University, East Lansing. He has held faculty positions at Notre Dame (1990-1991, 2001-present), Washington State University (1991-1998), and Ohio State University (1998-2001). His research interests include computer vision, biometrics, and image processing. Dr. Flynn is an IEEE Fellow, an IAPR Fellow, an ACM Distinguished Scientist, a past Associate Editor-in-Chief of IEEE Trans. on PAMI, and a past Associate Editor of IEEE TIFS, IEEE TIP, IEEE TPAMI, Pattern Recognition, and Pattern Recognition Letters. He has received outstanding teaching awards from Washington State University and the University of Notre Dame.

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