Colorado State University's
Information Science and Technology Center (ISTeC)
presents <u>one</u> lecture by

Kevin Bowyer

Schubmehl-Prein Professor and
Department Chair
Department of Computer Science and
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University of Notre Dame

ISTeC Distinguished Lecture
in conjunction with the
Electrical and Computer Engineering Department and Computer Science Department Seminar Series

"The Effect of Contact Lenses on Iris Recognition"

Monday, March 25, 2013
Reception: 10:30 a.m.
Lecture: 11:00 – 12:00 noon
Location: Computer Science Building Room 130

ABSTRACT

"The Effect of Contact Lenses on Iris Recognition"

This talk will (a) introduce iris recognition as a means of verifying a person's identity, (b) discuss how wearing contact lenses affects the accuracy of iris recognition, and (c) present results of algorithms developed to automatically detect whether or not the eye in an iris image is wearing a contact lens. We consider clear, prescription contact lenses, and "cosmetic" or "patterned" lenses. It has long been believed that wearing clear prescription contact lenses does not affect the accuracy of iris recognition. However, recent results show that wearing clear prescription contacts does have a (smaller) effect on recognition accuracy.

This talk should be understandable to persons not working in biometrics or computer vision.

SPEAKER BIOGRAPHY

Professor Kevin Bowyer is a Fellow of the IAPR, a Fellow of the IEEE and a Golden Core Member of the IEEE Computer Society. He has served as Editor-in-Chief of the *IEEE Transactions on Pattern Analysis and Machine Intelligence* and of the *IEEE Biometrics Compendium*, and currently serves on the editorial boards of a number of other journals. He was the founding General Chair of the *IEEE International Conference on Biometrics Theory Applications and Systems (BTAS)* conference series, and served as General Chair of the 2007, 2008 and 2009 conferences. He also served as General Chair of the 2011 *International Joint Conference on Biometrics*, and as Program Chair of the 2011 *Automatic Face and Gesture Recognition* conference. His research group has been active in support of a variety of government-sponsored biometrics programs, including the Human ID Gait Challenge, the Face Recognition Grand challenge, the Iris Challenge Evaluation, the Face Recognition Vendor Test 2006, and the Multiple Biometric Grand Challenge.

Professor Bowyer's research interests range broadly over computer vision and pattern recognition. He has made advances in various areas of biometrics research, including iris recognition, face recognition, multi-biometric methods and other topics. He has graduated 20 PhD students. His Google Scholar h-index is currently 55. His latest book is the *Handbook of Iris Recognition*.

To arrange a meeting with the speaker, please contact **Prof. Sudipto Gosh** at Sudipto.Gosh@ColoState.EDU or (970) 491-4608.

ISTeC (Information Science and Technology Center) is a university-wide organization for promoting, facilitating, and enhancing CSU's research, education, and outreach activities pertaining to the design and innovative application of computer, communication, and information systems. For more information please see ISTeC.ColoState.edu.