

IEB 2015

WORKSHOP ON INSIGHT ON EYE BIOMETRICS

Editorial

Efficient human identification methods play a key role in applications such as ID cards, border crossings, and access control. In this respect, methods based on biometrics are increasingly adopted since biometric traits, such as fingerprints, face appearance, ear geometry, retina and iris patterns, voice, DNA, gait cannot be lost, stolen, or easily forged and are also considered to be mostly persistent during the entire life of an individual and sufficiently unique for each human being.

As witnessed by the recent literature, the interest for eye related biometrics (iris pattern, retina pattern, periocular regions, eye tracking and gaze) is rather high. Most of the eye related biometrics can be captured by non invasive and contactless acquisition devices, without the cooperation of the user, at a largely variable distance (from a few centimeters up to a few meters) and even “on-the-move”. Iris and retinal patterns are characterized by low occurrence of false positives and of false negatives, high reliability, and speed in the identification of the subject. Recognition based on the analysis of periocular regions is particularly useful when iris recognition cannot be implemented. This is the case of blind people or people affected by cataract, and when images do not have a sufficient resolution.

The purpose of the IEB 2015 workshop was to give the opportunity to researchers interested in detection and recognition methods based on all eye related biometrics to have a common forum to discuss all aspects of their closely related research activities.

Out of the 5 papers submitted to IEB 2015 from around the world and peer reviewed by at least two members of the International Program Committee, three papers have been accepted for presentation to the workshop.

We take the occasion to thank all members of the IEB 2015 Program Committee for the valuable help provided by their detailed review reports and, of course, all contributors. Finally, we thank the SITIS conference board for kindly hosting this workshop and letting us use its facilities and structures.

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