

From Cradle to Grave Biometrics: Forensic Iris Recognition

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Abstract:

Hollywood's favorite biometric attack often involves an eye plucked from its socket and presented on a stick to an iris camera. But ... can this attack actually succeed in reality? Can we use iris patterns to recognize humans after death? And if so, how long after death is this possible? Looking at the other end of life: can we apply iris recognition for newborns? Can we learn from human experts to develop iris recognition and presentation attack detection methods that generalize well to unseen data? Can we synthesize realistically-looking irises of non-existent identities and condition these models with specific anomalies to assist forensic experts in their work? Join Prof. Adam Czajka on a fascinating biometric journey that starts at birth and ends after death. Along the way, we'll try to find answers to the above questions, supported by the latest research advancements in forensic iris recognition