

Professor Philip Ogunbona

Title :

Face Recognition from a Single Sample

Abstract:

Face recognition continues to be a challenging and contemporary research problem despite decades of effort by the research community. Some of the key challenges include variations in pose, illumination, expression and occlusion. Machine learning techniques have been brought to bear on the problem and would entail a training (or learning) phase followed by the recognition task. In certain class of applications there is insufficient training samples and the problem becomes the well known small sample size (SSS) problem. There are also situations when there is only one sample available for learning; we are particularly interested in this case. In this talk we present an overview of the problem and a solution based on principles we believe underlie how humans recognize from a single sample face image.