

Face Recognition Systems Ming Yang Al Group, Facebook Inc.

Abstract

Face recognition is the enabling technology for many intelligent visual recognition systems, with profound social and cultural implications. The first half of the talk reviews the pipeline of a face recognition system, including face detection, alignment, feature extraction, and classification, as well as offline data collection, tagging, and pre-processing. The second half of the talk focuses on the state-of-the-art face recognition systems in unconstraint environment, unifying the strength of precise fiducial point detection and advanced machine learning techniques, e.g., metric learning and deep learning. Useful resources for face recognition research, e.g., public datasets, open sources, and classical and latest key references are discussed at the end.

Keywords

face detection, face alignment, face recognition, facial fiducial point detection, metric learning, deep learning.