Abstract

Face recognition with age variation is a challenging task for researchers. In this research paper a new face database is proposed. The proposed name of this database is Indian Face Age Database (IFAD). It consists of images of Indian celebrities. To enhance the unconstrained age invariant face recognition research, a more challenging Indian Face Age Database (IFAD) is proposed and introduced that has much more variability compared to any other age variation face database. The database consists of 3296 faces of 55 known Indian celebrities collected from online sources. In IFAD face detection is done by Viola Jones face detection algorithm. This database has different phases of life of celebrities from childhood to old age. IFAD is a huge, real-world face database has 55 subjects and each has more than 50 images per subject. All images have large variation in age parameter and also have variation in lighting, expression and pose variation. The main purpose of IFAD is to show age variation. In proposed IFAD images are manually selected from online sources resulted in high degree of variation in scale, pose, expression, illumination, age, occlusion, makeup which one could ever see in natural
world. IFAD is the first face database that provides a detailed annotation in terms of age, pose, gender, expression, amount of occlusion, for each face which may help other face related applications. The script of IFAD is written in MATLAB.

References

Index Terms

Computer Science

Image Processing

Keywords

Image processing, Feature extraction, Face recognition, Machine vision