

Computer program To Detect Human Age

A computer program that detects human age based on facial features has been developed by researchers at the Department of Electronics and Telecommunication Engineering at Shri Guru GobindSinghji Institute of Engineering and Technology, Maharashtra in their recent study.

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“Look! Don't be deceived by appearances - men and things are not what they seem” is a famous quote by William Booth that puts more weight on the observation that it is difficult to guess the age of a person based facial features and appearance. A computer program that could detect human age and classify it efficiently has potential applications in age specific human computer interaction at passport and visa offices and conferences, intelligent intensive care unit in hospitals, and electronic customer relationship management systems in banks.

Researchers at the Department of Electronics and Telecommunication Engineering, Shri Guru GobindSinghji Institute of Engineering and Technology, Maharashtra have made a new computer program that detects human age from passport sized photographs based on eight facial features including skin texture and wrinkle analysis, and classifies them into one of the four age groups accurately.

The user needs to input the person's image whose age has to be calculated. The image has to be converted to gray scale, followed by marking the eyes and aligning the image on a scale. Just these three simple steps, and the rest are taken care of by the computer program. It processes the image based on a pre-fed algorithm that calculates the age of the person.

This computer program has been tested on images from a face image database of 228 male and 352 female images that ranged from ages 18 to 93 years. They found that the computer program detects and classifies human age accurately and therefore, holds wide potential in hospitals, banks, and many such places where services should be preferentially allocated based on age.

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