ABSTRACT

Computer vision, unlike humans, still has not fully acquired the ability to categorise a person’s age group from an image of the person’s face. Successful gender and age classification could be used to boost the performance of face recognition system. Fuzzy models have been used and analysed in this work to achieve the desired results.

The concept of fuzzy lattice neural model is introduced and is applied to classify the age group of a person from the gray scale facial image. Next, the fuzzy equivalence relation model is constructed and is used to classify the age group of a person. Then, the fuzzy lattice neural model is applied to segment an aerial gray scale image. Finally, fuzzy lattice neural model is compared with other models like fuzzy equivalence relation model, Kohenen's clustering neural model that are used for classification.