

Human action recognition using genetic algorithms and convolutional neural networks

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Abstract: Identification of human behavior using video images has many applications in various fields, Automatic detection of human behavior is performed using image processing techniques. Several methods have been introduced in extracting features images. Accuracy in detecting and extracting convenient feature of the challenges in this field. The proposed system should be optimized. Increased accuracy in calculations system complex and time consuming method is not suitable. Therefore, methods must be used to optimize problems. In this research the genetic algorithm is used to the appropriate feature. Genetic algorithms can be simply, a method called search, Based on the observation of the characteristics of successive generations of children, and the children based on the (unproven) survival of the fittest, is based. In this research MATLAB software was used to simulate the proposed method, The data the database and UCF50 have been prepared. This database is a collection of video images to detect the behavior of other people. This error relative to the research base has improved by 2% percentage points. **Keywords:** Images, Zernike, genetic algorithms.

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