Abstract

Gesture language is considered as secondary language for most of people and main language for hearing impaired people, it is considered as international non-spoken language that make the understanding between different tongues possible regardless which country is this, it is also considered the first language that can be act for children in which they express they need in a movement.

There are vast range of non-geometric features that can applied to recognize specific object, we have applied in this paper novel algorithm by building Gaussian model that covers the area of the hand gesture which may or may not circular area, because of that Gaussian is chosen for any circular or oval shape depending on the presented gesture itself, furthermore, rotation variation has been solved in order to reduce the database size used for training the model, experimental results show a promising outcomes that dominant on the other non-geometric techniques.
References


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**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Gesture recognition system, Gaussian classifier, Gaussian model, non-geometric features