

A Gesture-based Tool for Sterile Browsing of Radiology Images

Literature Survey

S.No	PAPER	WORK	TOOLS FOR ALGORITHM	FINDINGS
1	E. Stergiopoulou, N. Papamarkos, "Hand gesture recognition using a neural network shape fitting technique"	Hand Gesture fitting procedure via Self-Growing and Self-Organized Neural Gas	Neural Network	The region of the hand is detected by applying a colour segmentation technique based on a skin colour filtering procedure in the YCbCr colour space. Then, the SGONG network is applied on the hand area so as to approach its shape. Based on the output grid of neurons produced by the neural network, palm morphologic characteristics are extracted.
2	Gongfa Li, Heng Tang, "Hand gesture recognition based on convolution neural network"	The convolution neural network is applied to the recognition of gestures.	Convolutional Neural Network	Geometric features based on the recognition method, the use of gestures of the edge characteristics and gestures of the regional structure characteristics as a recognition feature.
3	G.R.S. Murthy, R.S. Jadon, "Hand gesture recognition using Neural Network	Supervised feed-forward neural net training and back propagation algorithm for classifying hand gestures.	Image Acquisition Toolbox of MATLAB	Analysing and classifying hand gestures for HCI include Glove based techniques and Vision based techniques.
4	Hsien-I Lin, Ming-Hsiang Hsu, and Wei-Kai Chen "Hand gesture recognition using neural networks"	The skin model and the calibration of hand position and orientation are applied to obtain the training and testing data for the CNN.	Convolutional Neural Network, Gaussian Mixture Model	A Gaussian Mixture model (GMM) is used to train the skin model which is used to robustly filter out non-skin colors of an image.

5	A Gaussian Mixture model (GMM) is used to train the skin model which is used to robustly filter out non-skin colors of an image.	An algorithm for drivers' hand gesture recognition from challenging depth and intensity data using 3D convolutional neural networks	3D Convolutional Neural Network	Combines information from multiple spatial scales for the final prediction. Also, employs spatio-temporal data augmentation for more effective training and to reduce potential overfitting.
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