International Journal of Science and Research (IJSR)

ISSN (Online): 2319-7064

Index Copernicus Value (2013): 6.14 | Impact Factor (2013): 4.438



2	1	2
1	0	1
2	1	2
Distance Transform		

Figure 6: Cityblock distance

In this project we will click on dropdown list, we will seen the number of images.

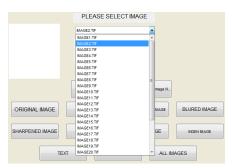


Figure 7: First step of image selection

After that we will select a image and see original form as hand movement

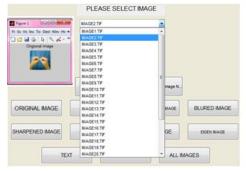
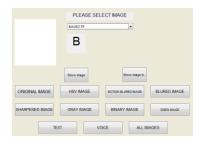


Figure 8: Second step show original img.

That is the first part of project. Second part is text the image will be converted in text form show as alphabetical form



If we click on voice button so voice will be generated that alphabetical name example B

These are the part of images



4. Result and Discussions

In this table we are showing the mean value of images that mean value denoted alphabetical form

Table 1: Result sate mean value

Valxmean Value	Alphabets
13.1589	A
11.0926	В
7.5293	C
8.5502	D
9.1343	E
9.0423	F
9.8608	G
7.4689	I
11.9691	K
8.8426	L
8.5082	M
5.5566	N
7.8785	O
8.0745	P
8.4730	Q
6.1020	R
9.1309	S
10.5033	T
12.6637	U
11.1109	V
10.1459	W
10.3914	X
0	Y
6.0008	Z

Table 2: Comparitive Study Between Our Work And Other Approaches

ripprodenes			
Name of the	Success	Difficulties Faced	
technique used	Rate		
PCA, Gabor Filter	95.2%	Single hand gesture	
and SVM[14]			
Contour based[15]	91%	Number of use gloves as hand	
		movement and also show single	
		hand gesture recognition in hand	
		movement	
Hit-Miss operation	97%	The skin color is weak	
HMM [13]			

Our work	Success rate	Advantage
Cityblock methods by	95%	Flow is smooth,
distance		complication is less, time
Based		secured
Dynamic presentation	40%	Multiple task performer

5. Conclusion and Future Work

The proposed system was implemented with MATLAB version 7.6 (R2008a) and supporting hardware was Intel® Pentium® CPU B950 @ 2.10GHz processor machine, Windows 7 Home basic (64 bit), 4GB RAM and an external 2 MP camera IT is capable of handling different static alphabets of Indian sign language by using city block method.it is denoted distance between eigen value. These are classification techniques. In this paper I am using a voice translation method which is more beneficial for communication media. In future we can make app using this technique so that while talking to the disabled people the app can can translate the gesture into voice. This proposed system was implemented with matlab.

International Journal of Science and Research (IJSR)

ISSN (Online): 2319-7064

Index Copernicus Value (2013): 6.14 | Impact Factor (2013): 4.438

References

- [1] J.Rekha, J.bhattacharya, S.Majumder "Shape, Texture and Local Movement Hand Gesture Features for Indian Sign Language Recognition"pp 978-1-4673-0132, IEEE 2011
- [2] Daniel B. Dias, Renata C. B. Madeo, Thiago Rocha, Helton H. Biscaro and Sarajane M." Hand Movement Recognition for Brazilian Sign Language: A Study Using Distance-Based Neural Networks" Proceedings of International Joint Conference on Neural Networks, Atlanta, Georgia, USA, June 14-19, 2009, 978-1-4244-3553-1/09/\$25.00 ©2009 IEEE
- [3] Cao Xin-yan, Liu Hong-fei, Zou Ying-yong,"Gesture Segmentation Based on Monocular Vision Using Color and Motion Cues ", China IEEE-2010 pp 978-1-4244-5555
- [4] M.K. Bhuyan, Mithun Kumar Kar, Debanga Raj Neog, "Hand Pose Identification from Monocular Image for Sign Language Recognition", 2011 IEEE International Conference on Signal and Image Processing Applications (ICSIPA2011), 978-1-4577-0242-6/11/\$26.00 ©2011 IEEE.
- [5] R.Elakkiya ,K.Selvamani and S. Kanimozhi research paper name a "frame work for recognizing sign language gestures from continuous vedio sequence using boosted learning algorithm", 978-1-4799-2900-9/14/\$31.00 ©2014 IEEE.
- [6] Hyung-Ji Lee and Jac-Ho Chung research paper name is "Hand gesture recognization using orientation histogram". 1999 IEEE TENCON, 0-7803-5739-6/99/\$10.00@)1999IE EE.
- [7] Nguyen Dang Binh, Toshiaki Ejima "A new Approach Dedicated to Hand Gesture Recognition" (Intelligence Media Laboratory, Kyushu Institute of Technology), Japan 2006 IEEE int. Conf. on cognivite informatics (icci' 06) Y.Y. Yao, Z.Z.Shi, Y.Wang, and W.kinsner (Eds.) 1-4244-047
- [8] Adithya V. ,Vinod P. R ,Usha Gopalakrishna, "Artificial Neural network Based method for Indian Sign Language Recognition". Pathanamthitta Kerala, India(IEEE 20/13)
- [9] Georgiana Simion, Vasile Gui and Marius testeanu, "Finger Detection Based on Hand Contour and Color Information"Proc 6th IEEE International Symposium on Applied Computational Intell igence and Informatics, pp: I 9-21, May 2011
- [10] Ju.z, and Liu.H, "A unified fuzzy framework for human hand motion recognition", IEEE Trans. Pattern Analysis And Machine Intelligence, Vol. No.1, issue:99, May 2011
- [11] P. Kar, M. Reddy, A. Mukherjee, A. M. Raina. INGIT: Limited Domain Formulaic Translation from Hindi Strings to Indian Sign Language. ICON, 2007
- [12] http://in.mathworks.com/help/stats/pdist.html

Paper ID: SUB156542

- [13] T. Kapuscinski and M. Wysocki, "Hand Gesture Recognition for Man-Machine interaction", Second Workshop on Robot Motion and Control, October 18-20, 2001, pp. 91-96.
- [14] D. Y. Huang, W. C. Hu, and S. H. Chang, "Vision-based Hand Gesture Recognition Using PCA+Gabor Filters and SVM", IEEE Fifth International Conference

- on Intelligent Information Hiding and Multimedia Signal Processing, 2009, pp. 1-4.
- [15]I. G. Incertis, J. G. G. Bermejo, and E.Z. Casanova, "Hand Gesture Recognition for Deaf People Interfacing", The 18th International Conference on Pattern Recognition (ICPR), 2006.

