

RESULT

The face detection code was tested using five sets of data.

Each set contained 25 images. The first set consisted of images with one face, the second set with two faces and so on. Furthermore, the 25 images in each set was categorised into five types consisting of five images each : upright-frontal, tilted at 45 °, uniform illumination, non-uniform illumination and occlusions.

The table below lists the result of the tests.

	Detection Rates				
	Upright Frontal	Tilted at 45°	Uniform Illumination	Non-uniform Illumination	Occlusions
Set 1	5	0	5	5	2
Set 2	10	1	10	6	5
Set 3	14	0	15	13	7
Set 4	19	0	18	16	15
Set 5	25	2	23	18	19
	97%	4%	94.7%	77.33%	64%

CONCLUSION

From the above result, an estimate of the effectiveness of the face detection under different conditions can be made. It can be inferred that the detection fails almost completely for 45 deg titled faces and works best in uniformly illuminated upright-frontal images