

SEAS-FR-DB


Benchmarking Details						
For, Testing Videos						
		Duration	Frame Rate	Total Frames		
Video Title:	all_slide.mov	24 seconds	30 fps	720 frames		
Subjects	Entry Frame	Entry Frame (Viola-Jones)	Exit Frame	Exit Frame (Viola-Jones)	Actual Appearance	ViolaJones Appearance
Subject - 1	38	50	259	249	221	199
Subject - 2	332	340	477	470	145	130
Subject - 3	574	581	711	703	137	122
Subject - 4	208	215	359	350	151	135
Subject - 5	452	472	592	576	140	104
					Exit Fame - Entry Frame	Exit Frame (Viola-Jones) - Entry Frame (Viola-Jones)
Multiple Faces	For Video: all_slide.mov					
Subjects	Start Frame	End Frame	Difference	Pairing		
Subjects 1,4	215	249	34	Pairing		
Subjects 2,4	340	350	10	Pairing		
Subjects 2,5	472	470	-2	No Pairing		
Subjets 3,5	581	576	-5	No Pairing		
		Duration	Frame Rate	Total Frames		
Video Title:	all_stand.mov	10 seconds	30 fps	300 frames		
Subjects	Entry Frame		Exit Frame			
Subject - 1	0		300			
Subject - 2	0		300			
Subject - 3	0		300			
Subject - 4	0		300			
Subject - 5	0		300			
For, Training Videos						
		Duration	Frame Rate	Total Frames		
	For each video—>	4 seconds	30 fps	120 frames		
Subjects	Video Titles (.mov format)		Entry Frame		Exit Frame	
Subject - 1	s1_1, s1_2, s1_3, s1_4		0		300	
Subject - 2	s2_1, s2_2, s2_3, s2_4		0		300	
Subject - 3	s3_1, s3_2, s3_3, s3_4		0		300	
Note:	<ul style="list-style-type: none">Here, Subjects 4 & 5 are for testing purposes only, as those subjects are not trained and only Subjects - 1,2 & 3 are trained.					
	<ul style="list-style-type: none">Entry Frame (B7:B11) indicates when ‘<i>Right Eye</i>’ completely in the frame, whereas Exit Frame (D7:D11) indicates when ‘<i>Left Eye</i>’ disappears from the frame.					
	<ul style="list-style-type: none">Viola-Jones Entry and Exit Frame are calculated using OpenCV in Python and using “<i>haarcascade_frontalface_alt.xml</i>” for Frontal Face Detection with specific parameters (<i>detectMultiScale(gray, scaleFactor=1.9, minNeighbors=2, minSize=(261,261), maxSize=(261,261))</i>).					
	<ul style="list-style-type: none">When the Subject is detected for the first time and when it is last detected is denoted respectively, Entry Frame (Viola-Jones) (C7:C11) and Exit Frame (Viola-Jones) (E7:E11).					
	<ul style="list-style-type: none">Pairing (E16:E19) means if multiple subjects has appeared in a single frame. Where Difference (D16:D19) shows Number of Frames that 2 subjects have shared if <i>difference > 0</i>, else No pairing in a frame.					

Subjects

Subject - 1

Mayank Jobaputra


(131021)



Subject - 4

Dev Mehta


(131009)



Subject - 2

Axat Chaudhary


(131006)



Subject - 5

Pal Nikola


(131032)



Subject - 3

Saumil Shah

(131044)



Contributors:	Saumil Shah (131044), Mayank Jobanputra (131021), Axat Chaudhary (131006)
Acknowledgement:	We appreciate the work of <u>Dev Mehta (131009)</u> , <u>Pal Nikola (131032)</u> for being the Test Subjects in our Face Recognition Database.
Guided By:	We sincerely thank <u>Dr. Ratnik Gandhi</u> , <u>Dr. Mehul S. Raval</u> for their constant guidance and support for our Face Recognition project and SEAS-FR-Database.