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:

- Here, Subjects 4 & 5 are for testing purposes only, as those subjects are not trained and only Subjects - 1,2 & 3 are trained.
- **Entry Frame** (B7:B11) indicates when '*Right Eye*' completely in the frame, whereas **Exit Frame** (D7:D11) indicates when '*Left Eye*' disappears from the frame.
- Viola-Jones Entry and Exit Frame are calculated using OpenCV in Python and using "*haarcascade_frontalface_alt.xml*" for Frontal Face Detection with specific parameters (***detectMultiScale****(gray, scaleFactor=1.9, minNeighbors=2, minSize=(261,261), maxSize=(261,261)*).
- 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).
- **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 *difference > 0*, else No pairing in a frame.

Subjects

Subject - 1

Mayank Jobaputra

(131021)

Subject - 2

Axat Chaudhary

(131006)

Subject - 3

Saumil Shah

(131044)

Subject - 4

Dev Mehta

(131009)

Subject - 5

Pal Nikola

(131032)

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