Motivation





Method	Clean face benchmark			Masked fac	
		IJB-B	IJB-C	MFW+(U-M)	
(1) CosFace, without synthesis(m=0.35) [99.33	93.89	95.22	62.86	
(2) CosFace(m=0.35)	99.18	92.59	94.03	80.73	
(3) ArcFace, without synthesis(m=0.50) [2]	99.38	94.29	95.68	70.27	
(4) ArcFace(m=0.50)	99.20	92.81	94.52	83.03	



PPL: Pairwise Prototype Learning for Masked Face Recognition

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All codes of PPL are available at https://github.com/kim1102/PPL-MFR

an face benchmark			Masked face benchmark		
7	IJB-B	IJB-C	MFW+(U-M)	MFW+(M-M)	
3	92.59	94.03	80.73	75.93	
)	92.81	94.52	83.03	77.70	
3	91.57	93.46	78.36	74.80	
7	92.69	94.43	83.18	77.88	
)	93.29	95.02	83.54	78.27	
7	93.05	94.69	83.40	77.77	
	93.40	94.92	83.82	78.36	
	93.65	94.99	80.50	75.59	
3	93.59	95.25	83.69	78.80	
5	94.14	95.58	84.27	78.27	

can	Caucasian	South Asian	East Asian	All	Mask
56	63.14	50.65	31.51	51.75	73.86
40	71.57	59.66	37.73	60.18	79.99
79	61.18	47.50	24.56	44.63	73.57
87	71.55	59.37	40.02	61.79	80.20
32	73.86	62.06	41.03	62.71	80.82
90	74.19	61.95	41.68	64.01	79.87
08	76.54	67.29	47.68	68.92	78.78
28	74.43	64.47	45.16	65.49	74.96
77	80.49	71.75	52.35	73.32	78.99
97	82.41	75.40	54.81	75.55	80.90