

Additional Metrics of Affective State Prediction

Performance for the prediction of three classes (low, medium, high) of valence, arousal, and dominance. AUCmicro and F1micro represent micro-averaged AUC and F1-score, respectively. AUCmacro and F1macro represent macro-averaged AUC and F1-score, respectively. The chance level of accuracy and F1-score is 0.33, of AUC it is 0.5, and of Cohen's kappa it is 0.

Dimension	Heat Map	AUC_{micro}	AUC_{macro}	Accuracy	F1_{micro}	F1_{macro}	Cohen's kappa
Valence	Pressure	0.75	0.74	56%	0.56	0.55	0.33
	Down-down	0.81	0.81	64%	0.64	0.64	0.45
	Up-down	0.79	0.79	61%	0.61	0.61	0.41
	Combination	0.84	0.83	67%	0.67	0.66	0.49
Arousal	Pressure	0.80	0.78	62%	0.62	0.59	0.38
	Down-down	0.75	0.73	55%	0.55	0.51	0.28
	Up-down	0.73	0.70	53%	0.53	0.50	0.26
	Combination	0.82	0.80	63%	0.63	0.61	0.41
Dominance	Pressure	0.79	0.77	63%	0.63	0.57	0.37
	Down-down	0.80	0.78	63%	0.63	0.56	0.37
	Up-down	0.78	0.76	61%	0.61	0.55	0.34
	Combination	0.82	0.80	65%	0.65	0.59	0.41