

Supplementary Materials: Disentangled-Multimodal Privileged Knowledge Distillation for Depression Recognition with Incomplete Multimodal Data

Anonymous Authors

1 ANALYSIS OF PRIVILEGED KNOWLEDGE DISTILLATION

We present the full data of Fig.3 across all validated datasets, illustrating the performance of direct recognition using the student model before and after knowledge distillation. This comparison highlights the impact of privileged knowledge from Dis2DR on recognition from incomplete modalities. Detailed comparison results are presented in Tab. 1 and Tab. 2.

Table 1: The performance of Dis2DR before privileged knowledge distilling on AVEC datasets.

Input Modality	AVEC 2013		AVEC 2014		AVEC 2017		AVEC 2019	
	MAE↓	RMSE↓	MAE↓	RMSE↓	MAE↓	RMSE↓	MAE↓	RMSE↓
A	15.30	17.82	15.41	17.90	7.40	8.28	6.56	7.56
V	11.70	13.64	11.66	13.54	5.40	6.10	5.46	6.25
T	7.88	9.70	8.08	9.72	4.75	5.51	4.56	5.54
A+V	11.88	13.75	11.74	13.56	5.43	6.16	5.46	6.22
A+T	8.01	9.77	8.17	9.82	4.84	5.56	4.51	5.52
V+T	5.65	6.81	5.42	6.53	4.65	5.23	3.99	4.76
A+V+T	5.58	6.76	5.38	6.51	3.74	4.52	3.99	4.72

Table 2: The performance of Dis2DR after privileged knowledge distilling on AVEC datasets.

Input Modality	AVEC 2013		AVEC 2014		AVEC 2017		AVEC 2019	
	MAE↓	RMSE↓	MAE↓	RMSE↓	MAE↓	RMSE↓	MAE↓	RMSE↓
A	11.65	13.45	11.69	13.46	5.68	6.51	5.41	6.34
V	7.10	9.31	7.59	9.11	4.84	5.56	5.27	6.37
T	6.01	7.43	6.15	7.45	4.17	4.93	3.66	4.41
A+V	8.90	10.59	8.67	10.38	4.82	5.55	4.23	5.28
A+T	5.97	7.37	6.06	7.32	4.48	5.19	4.10	5.12
V+T	5.75	7.06	5.17	6.47	4.20	4.99	3.73	4.45
A+V+T	5.75	7.04	5.12	6.40	3.66	4.44	3.39	4.18