

CPET-former Multi-Center Performance Tables

November 27, 2025

1 Experiment 1: Training on Shanxi + Rizhao, Testing on Zhongshan

1.1 Online Prediction Metrics

Table 1: Online indicators for Experiment 1.

Scenario	Mean Delay (s)	Early Rate	Detect Rate	AUPRC _g	AUROC _g	AUPRC _w	AUROC _w
Internal	32.96	0.0355	1.0000	0.9971	0.9971	0.9029	0.8651
External (zero-shot)	−7.89	0.4680	1.0000	0.9825	0.9810	0.6699	0.6447
External (few-shot)	55.44	0.0896	1.0000	0.9953	0.9930	0.7374	0.7117

1.2 Offline Analysis Metrics

Table 2: Offline accuracy for Experiment 1.

Scenario	MAE (s)	Bias (s)	RMSE (s)	Median AE (s)	Hit Rate	LoA Lower	LoA Upper
Internal	17.74	−0.50	26.61	12.10	0.3022	−52.67	51.67
External (zero-shot)	72.39	−57.58	100.03	55.05	0.1077	−217.96	102.80
External (few-shot)	35.02	3.22	46.92	26.66	0.2834	−88.55	95.00

2 Experiment 2: Training on Shanxi + Zhongshan, External Testing on Rizhao

2.1 Online Prediction Metrics

Table 3: Online indicators for Experiment 2.

Scenario	Mean Delay (s)	Early Rate	Detect Rate	AUPRC _g	AUROC _g	AUPRC _w	AUROC _w
Internal	28.94	0.0357	1.0000	0.9965	0.9969	0.9177	0.8821
External (zero-shot)	73.03	0.0255	0.9978	0.9968	0.9951	0.7816	0.7378
External (few-shot)	50.84	0.0723	0.9983	0.9964	0.9946	0.7669	0.7297

Table 4: Offline accuracy for Experiment 2.

Scenario	MAE (s)	Bias (s)	RMSE (s)	Median AE (s)	Hit Rate	LoA Lower	LoA Upper
Internal	16.58	−1.87	25.14	11.06	0.2732	−51.03	47.30
External (zero-shot)	37.35	24.58	49.73	28.79	0.3209	−60.16	109.31
External (few-shot)	33.81	−2.45	47.10	25.83	0.2590	−94.65	89.76

2.2 Offline Analysis Metrics

3 Experiment 3: Training on Zhongshan + Rizhao, External Testing on Shanxi

3.1 Online Prediction Metrics

Table 5: Online indicators for Experiment 3.

Scenario	Mean Delay (s)	Early Rate	Detect Rate	AUPRC _g	AUROC _g	AUPRC _w	AUROC _w
Internal	41.33	0.0424	1.0000	0.9982	0.9971	0.8405	0.8192
External (zero-shot)	−44.71	0.8377	1.0000	0.9736	0.9860	0.7683	0.7355
External (few-shot)	53.31	0.0634	0.9282	0.9749	0.9822	0.7662	0.7265

3.2 Offline Analysis Metrics

Table 6: Offline accuracy for Experiment 3.

Scenario	MAE (s)	Bias (s)	RMSE (s)	Median AE (s)	Hit Rate	LoA Lower	LoA Upper
Internal	21.26	0.95	31.01	15.23	0.4027	−59.85	61.76
External (zero-shot)	86.89	−86.17	96.35	83.53	0.0127	−170.66	−1.67
External (few-shot)	37.49	14.39	54.07	25.13	0.3073	−87.77	116.54