

Table 7: Comparison results of our method and other studies (10-repeated 10-fold cross validation).

Dataset	Ref.	Classifier	Load features	$F_{macro}(\%)$ or <i>Accuracy</i> (%)
PLAID 2014	[Liu et al., 2019]	pretrained AlexNet	HSV VI images	95.4
	[Chen et al., 2022]	Two-stream CNN	GAF	96.59 ± 0.35
	[Le, Heo, & Kim, 2021]	HT-LSTM	Amplitude-Phase-Frequency	94.93 <i>90.4</i>
	ours	ResSENet	3-channel WMDF	97.26 ± 0.32 <i>97.47 ± 0.001</i>
PLAID 2017	[Chen et al., 2022]	Two-stream CNN	GAF	97.79 ± 0.16
	[Wu et al., 2023]	CNN & SVM	Feature Graph	90.90
	[Ghosh et al., 2021]	fuzzy rule-based	current harmonics etc	<i>97.37</i>
	ours	ResSENet	3-channel WMDF	98.07 ± 0.21 <i>98.23 ± 0.001</i>
PLAID 2018S	[Faustine et al., 2021]	CNN	AWRG	97.28 ± 0.68
	[Jiang et al., 2024]	TCN	multiple modes	<i>96.48</i>
	ours	ResSENet	3-channel WMDF	98.12 ± 0.26 <i>98.7 ± 0.003</i>
PLAID 2018A	[Faustine et al., 2021]	CNN	AWRG	97.77 ± 1.05
	[Qu et al., 2023]	residual CNN	WVI+MTF+I-GAF	97.44
	ours	ResSENet	3-channel WMDF	97.98 ± 0.38
PLAID (ALL)	[Li et al., 2024]	Bi-LSTM	DTW	94.12
	ours	ResSENet	3-channel WMDF	97.82
Whited v1.1	[Liu et al., 2019]	pretrained AlexNet	HSV VI images	98.66
	[Qu et al., 2023]	residual CNN	WVI+MTF+I-GAF	95.43
	ours	ResSENet	3-channel WMDF	99.36 ± 0.21