

Experiment Results

March 1, 2023

1 Experiments 1

Methods	Validation MSE(10^{-3})	Testing MSE(10^{-3})
No positional Info	5.38	5.68
Curve image	10.18	9.50
Spectrogram image	9.94	9.25
Polynomial Features (concatenate in 1st axis)	4.44*	4.51*
Polynomial Features (concatenate in 0st axis)	5.56	5.80
Index Positional Embedding (concatenate in 1st axis)	4.84	4.93
Index Positional Embedding (adding to original vector)	5.01	5.08
Sinusoidal Positional Embedding (concatenate in 1st axis)	4.77	12.43
Sinusoidal Positional Embedding (adding to original vector)	5.97	13.35
Trainable Positional Embedding (adding to original vector)	6.33	13.16

Table 1: The best validation mean square error and testing mean square error corresponds to different representations.