

Time Series Prediction by Using AutoEncoder

Combination of Data and Expert Knowledge

Datasets: CIF and NN5

Evaluation criteria: SMAPE (Symmetric Mean Absolute Percentage Error)

Dataset	Method	SMAPE
CIF	Only Data <ul style="list-style-type: none">3 Layer conv Network	12.603
	Combination of Data and Expert Knowledge <ul style="list-style-type: none">Using Autoencoder on Expert Knowledge3 Layer conv Network	11.804
NN5	Only Data (75%) <ul style="list-style-type: none">3 Layer conv Network	23.098
	Only Data (100%) <ul style="list-style-type: none">3 Layer conv Network	22.936
	Combination of Data and Expert Knowledge <ul style="list-style-type: none">Using Autoencoder on Expert Knowledge3 Layer conv Network	22.220
	Only Data (100%) <ul style="list-style-type: none">Training the Network with Whole Data3 Layer conv Network	21.690
	Combination of Data and Expert Knowledge <ul style="list-style-type: none">Training the Network with Whole DataUsing Autoencoder on Expert Knowledge3 Layer conv Network	20.671