

DAFTAR ISI

LEMBAR PERSETUJUAN	i
LEMBAR PENGESAHAN	ii
PERNYATAAN KEASLIAN SKRIPSI.....	iii
PERNYATAAN PERSETUJUAN PUBLIKASI SKRIPSI	iv
ABSTRAK	v
<i>ABSTRACT</i>	vi
KATA PENGANTAR.....	vii
DAFTAR ISI.....	ix
DAFTAR GAMBAR.....	xi
DAFTAR TABEL	xii
DAFTAR SINGKATAN.....	xiii
DAFTAR SIMBOL	xiv
DAFTAR ISTILAH.....	xvii
DAFTAR LAMPIRAN	xix
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang Masalah.....	1
1.2 Rumusan Masalah	3
1.3 Batasan Masalah	4
1.4 Tujuan Penelitian	4
1.5 Metode Penelitian	4
1.6 Sistematika Penulisan	5
BAB II LANDASAN TEORI	7
2.1 <i>Time Series</i>	7
2.2 Peramalan	14
2.3 Transportasi	16
2.4 <i>Autoregressive (AR)</i>	17
2.5 <i>Moving Average (MA)</i>	20
2.6 <i>Autoregressive Moving Average (ARMA)</i>	22
2.7 <i>Autoregressive Integrated Moving Average (ARIMA)</i>	25
2.8 <i>Artificial Neural Network (ANN)</i>	27

2.9	<i>Recurrent Neural Network (RNN)</i>	28
2.10	Analisis Model.....	32
2.10.1	<i>Autocorrelation Function (ACF)</i>	32
2.10.2	<i>Partial Autocorrelation Function (PACF)</i>	32
2.10.3	<i>Augmented Dickey-Fuller (ADF)</i>	33
2.10.4	<i>Akaike's Information Criterion (AIC)</i>	33
2.11	Evaluasi Akurasi Model	33
2.11.1	<i>Mean Squared Error (MSE)</i>	33
2.11.2	<i>Root Mean Squared Error (RMSE)</i>	34
2.11.3	<i>Mean Absolute Percentage Error (MAPE)</i>	34
2.11.4	<i>Mean Absolute Error (MAE)</i>	35
BAB III METODE PENELITIAN		36
3.1	<i>Seasonal Autoregressive Integrated Moving Average (SARIMA)</i>	36
3.2	<i>Long Short-Term Memory (LSTM)</i>	40
3.3	<i>Seasonal Autoregressive Integrated Moving Average (SARIMA)-Long Short-Term Memory (LSTM)</i>	46
BAB IV STUDI KASUS DAN ANALISA		48
4.1	Deskripsi Data.....	48
4.2	Peramalan – Skenario I	50
4.2.1	Uji Stasioner.....	50
4.2.2	Membangun Model SARIMA	51
4.2.3	Membangun Model Hibrida SARIMA-LSTM	52
4.3	Peramalan – Skenario II.....	54
4.3.1	Uji Stasioner.....	54
4.3.2	Membangun Model SARIMA	54
4.3.3	Membangun Model Hibrida SARIMA-LSTM	56
4.4	Hasil dan Pembahasan	58
BAB V PENUTUP		62
5.1	Kesimpulan.....	62
5.2	Saran.....	63
DAFTAR PUSTAKA		64