

Daftar Isi

PERNYATAAN	
UCAPAN TERIMAKASIH	i
ABSTRAK	iii
ABSTRACT	iv
DAFTAR ISI	v
DAFTAR TABEL	viii
DAFTAR GAMBAR	ix
DAFTAR LAMPIRAN	xi
BAB I	1
PENDAHULUAN	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah	4
1.3 Batasan masalah	4
1.4 Tujuan Penulisan	4
1.5 Manfaat Penulisan	4
1.5.2 Manfaat teoritis	4
1.5.2 Manfaat praktis	5
1.6 <i>Historical Review</i>	5
BAB II	6
KAJIAN TEORI	6
2.1 Ruang Hilbert	6
2.2 Ruang $\mathbb{L}2$	8
2.3 Basis Ortonormal di $\mathbb{L}2(a, b)$	8
2.4 Transformasi Fourier	10
2.4.1 Transformasi Fourier	10
2.4.2 Transformasi Fourier di $\mathbb{L}2\mathbb{R}$	11
2.4.3 Windowed Fourier Transformation	11
2.5 Varians.....	12

2.6 Covarians	Error! Bookmark not defined.	12
2.7 Korelasi		12
2.8 Pertumbuhan Ekonomi		13
2.9 Comovement		16
BAB III.....		17
WAVELET		17
3.1 Analisis Multiresolusi.....		17
3.2 Transformasi Wavelet		18
3.2.1 <i>Continuous Wavelet Transformation (CWT)</i>		20
3.2.2 <i>Discrete Wavelet Transformation (DWT)</i>	Error! Bookmark not defined.	
3.2.2.1 Persamaan Wavelet dan Persamaan Skala		23
3.2.2.2 Filter Wavelet.....		24
3.2.2.3 Filter Skala		26
3.3 Dekomposisi dan Rekontruksi.....		30
3.4 Wavelet Varians		32
3.3 Wavelet Covarians		33
3.4 Wavelet Cross-Covarians		33
3.5 Wavelet Korelasi		34
3.6 Wavelet Cross-Korelasi.....		35
3.7 Wavelet Recurrent Neural Network		35
3.7.1 Analisis Neural Network		35
3.7.2 Fungsi Aktifasi.....		37
3.7.3 Recurrent Neural Network.....		37
3.7.4 Wavelet Recurrent Neural Network		42
BAB IV		43
STUDI KASUS		43
4.1 Pendahuluan		43
4.2 Analisis volatilitas		43
4.3 Co-Movement.....		48
4.4 Pemroyeksian (<i>Forecasting</i>)		68

4.4.1 Dekomposisi	68
4.4.2 <i>Recurrent Neural Network</i>	69
4.4.3 Rekontruksi.....	69
4.4.4 Hasil WNN	69
BAB V.....	71
KESIMPULAN DAN REKOMENDASI	71
5.1 Kesimpulan.....	71
5.2 Saran	72
DAFTAR PUSTAKA	73
LAMPIRAN.....	76