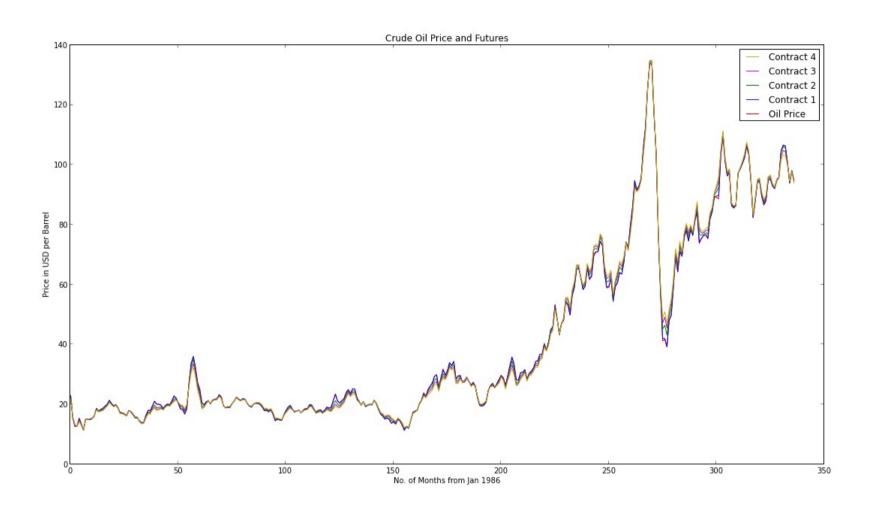
Forecasting Oil Prices using Wavelets

Ashwin Kachhara, 10D070048 Sumeet Fefar, 10D070001 Ankit Agrawal, 10D070027

Wavelet Analysis

- Decomposes signal into an approximation and detail, or coarse and fine
- Notable impact in geophysics, data processing, image compression, detection of discontinuities, neural networks
- Known to perform better where other methods fail

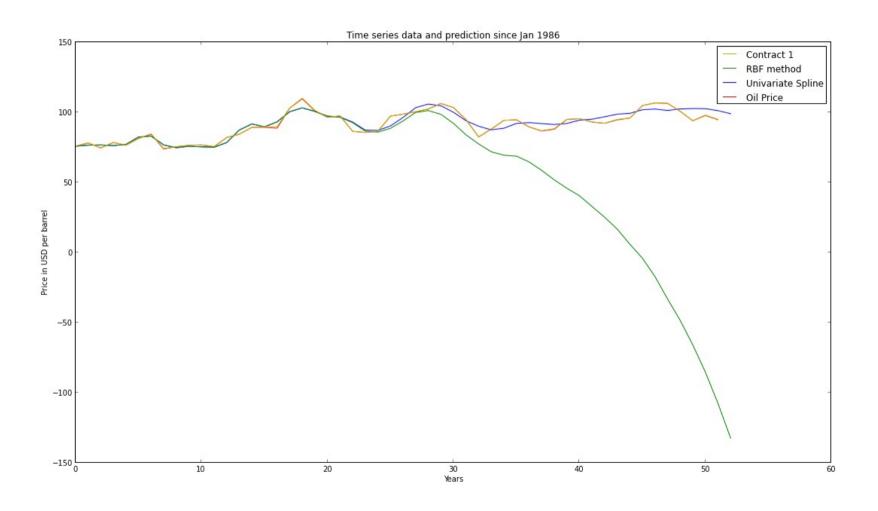
Oil Prices - Futures Market



Forecasting Methodology

- Wavelet Decomposition by suitable wavelet
- Modeling of decomposed signals
 - Univariate Spline
 - Radial Basis Function
 - Trigonometric Fitting (Sine)
- Extension by interpolation
- Wavelet Reconstruction of extended signals

Results (Latest 52 months)



Thank you!