

Forecasting Tasks

NETRAT, SLAC Contact: Adnan, Les, Umar interested

1. **Evaluate PCA multivariate method of Crovella: Waqar, Adnan,**
 - a. Compare PCA results with Holt-Winters/plateau: Adnan
 - i. ~~Fetch Data From SLAC, BNL, CALTECH (Pathchirp, Thrulay, Ping): Adnan~~
 - ii. ~~Fetch data from CERN~~
 - iii. ~~Apply PCA on same data and to get potential alerts: Adnan~~
 - iv. ~~Comparison of Run period results and PCA results: Adnan~~
 - v. ~~Improve event detector: Adnan~~
 - vi. ~~Deemnt findings on PCA: Adnan~~
2. Forecasting comparison of Active vs. passive data: Fareena, Adnan
 - a. Look at eview implementation of ARIMA (QU has copy): Fareena
 - i. Extend to more sites/metrics, see need for Integration & higher orders: Fareena, Adnan
 - ii. Try with longer time base: Fareena
 - iii. Get time estimates : Fareena
 - b. Detailed Graphs description: Fareena
 - c. ~~Regularization [Done]~~
 - d. Look at moodss (<http://fontain.free.fr/statistics.htm>): Fareena
 - e. ~~Send results/documentation to SLAC [Done 3/15/07]: Fareena~~
 - f. ~~Share documentation with COMSATS: Umar~~
 - g. Review write up, and send changes by FAX to +92-51-9280782: Les
3. Automatic event isolation: Adnan, Yee
 - a. Review the results we are getting at the moment
 - b. Provide email lists to get all reports from all monitors together; Jaredg
4. Extend to closer to real time, especially for loss of connectivity or more frequent measurements