

Recitation 13 Outline

May 5, 2004

State Space Models and Kalman Filtering

1. Linear least squares estimation facts
 - Estimates of linear combinations of random variables
 - Error variances for linear combinations
2. State space models
 - Definition and properties
 - State space representations of FIR filters
 - Constructing state space models from block diagrams
 - Propagation of uncertainty
3. Kalman filtering examples