Tracking Discussion

Robert B. Fisher
School of Informatics
University of Edinburgh

OBSERVATIONS & EXTENSIONS

- 1. Adaptive background modeling gives big model arrays (σ and kernel samples per pixel): 100+ Mb history for 50 observations
- 2. Rapid illumination changes, eg. lights on, a problem
- 3. Image compression introduces noise: eg. JPEG artifacts
- 4. Extension: suppress moving groups (eg. moving tree branches)
- 5. Extension: foreground statistical models

SUMMARY

Techniques good for:

- 1. Change detection by modelling the background statistically
- 2. Kalman filtering tracking & hypothesis noise reduction
- 3. Condensation tracking multiple undecided hypotheses, situation change