

## **Tracking Discussion**

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## **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

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## **OBSERVATIONS & EXTENSIONS**

- 1. Adaptive background modeling gives big model arrays ( $\sigma$  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

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