

Low-power motion detection and building control using Computer Vision

By: Kwabena Agyeman

Outline

- Recap
- Demo

Recap

- Intelligent low-power motion detector
 - Doesn't turn the lights off on you
 - Detects your presence in the room



Demo

Questions?



References

- C. Stauffer, W.E.L. Grimson, “Adaptive background mixture models for real-time tracking”, published.
- M. Piccardi, “Background subtraction techniques: a review”, unpublished.
- A. Verdant, A. Dupret, H. Mathias, P. Villar, L. Lacassagne, “Low Power Motion Detection with Low Spatial and Temporal Resolution for CMOS Image Sensor”, published.
- K. Agyeman, “CMUcam4: Open Source Programmable Embedded Color Vision Sensor”, unpublished.