











Why is context useful?

- Objects defined at least partially by function - Context gives clues about function
- · Objects like some scenes better than others
- Many objects are used together and, thus, often appear together
 - Kettle and stove
 - Keyboard and monitor

Context

- Neighbor-based context
 Nearby image data
- Scene-based context – Scene information
- Object-based context
 Presence, locations of other objects

Outline

- Combining local, bottom-up information with global, top-down information using graphical model
 - Boosting-based object recognition
 - Scene learning and classification
 - Joint classification and detection







































Conclusion

- Proposed an approach to object detection using scene-based context
- Extended to basic scene classification
- Showed how to combine global and local features for object detection and scene recognition



Reference website

- http://people.csail.mit.edu/torralba/iccv20 05/slides/part 3.ppt.
- <u>www.cs.cmu.edu/~tmalisie/presentations/</u> opposition to window scanning.ppt
- <u>www.vision.ee.ethz.ch/~rkehl/tracking.ht</u> <u>ml</u>