The Berkeley Multimodal Location Estimation Project

Dr. Gerald Friedland
International Computer Science Institute
Berkeley, CA
fractor@icsi.berkeley.edu

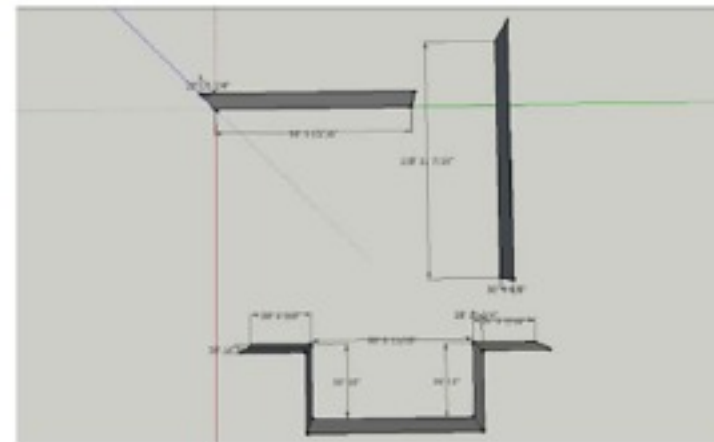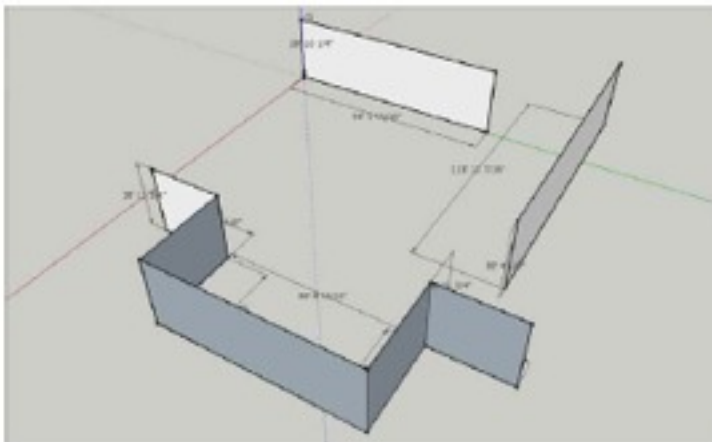# Localizing Mobile Video into Aerial Data
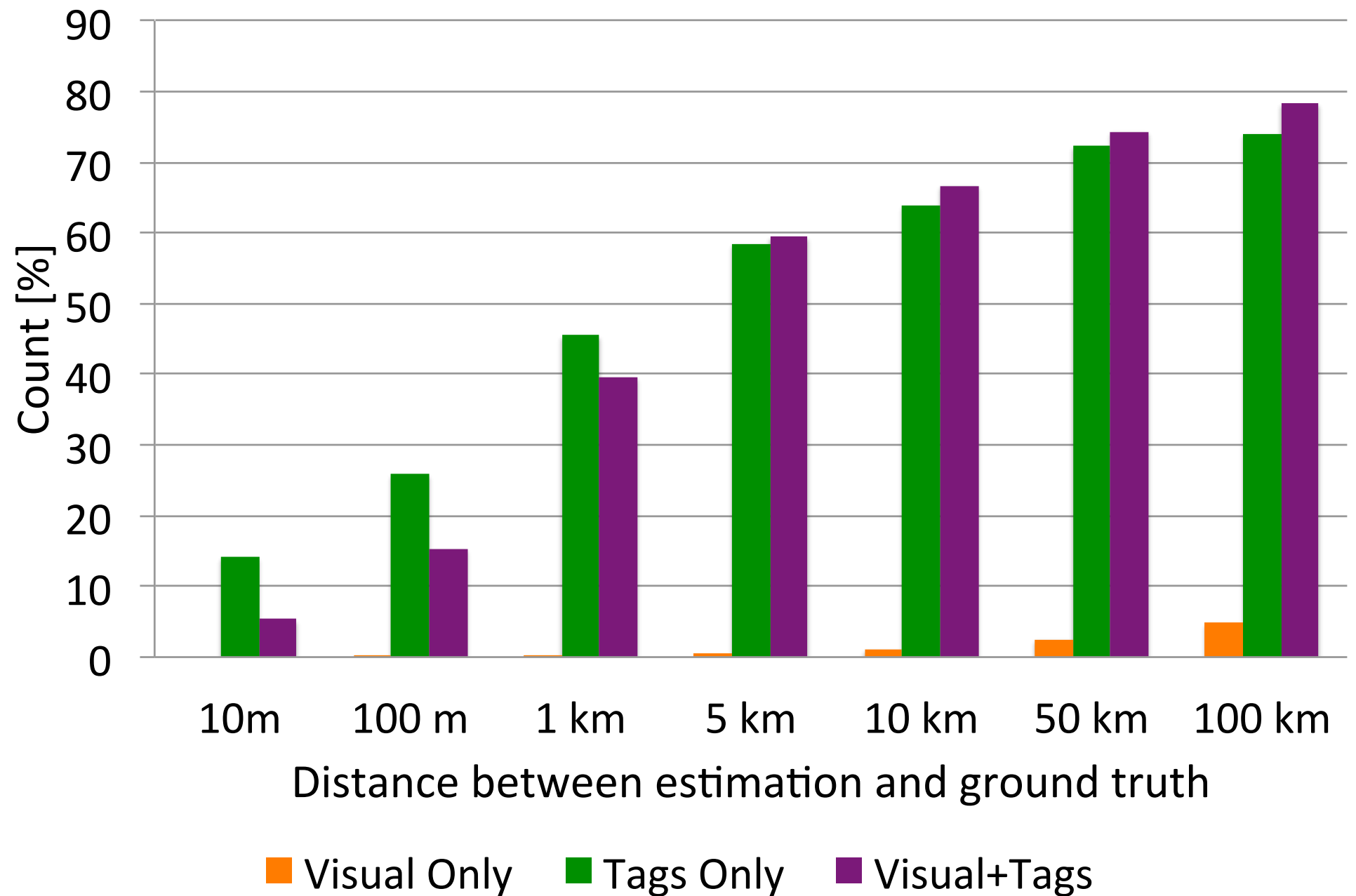
Frame 1 Frame 2 Frame 3

Template

Building Space Map

- Specify building facades using interactive 3D modeling tool (e.g., Google Sketchup)

× Matched Location

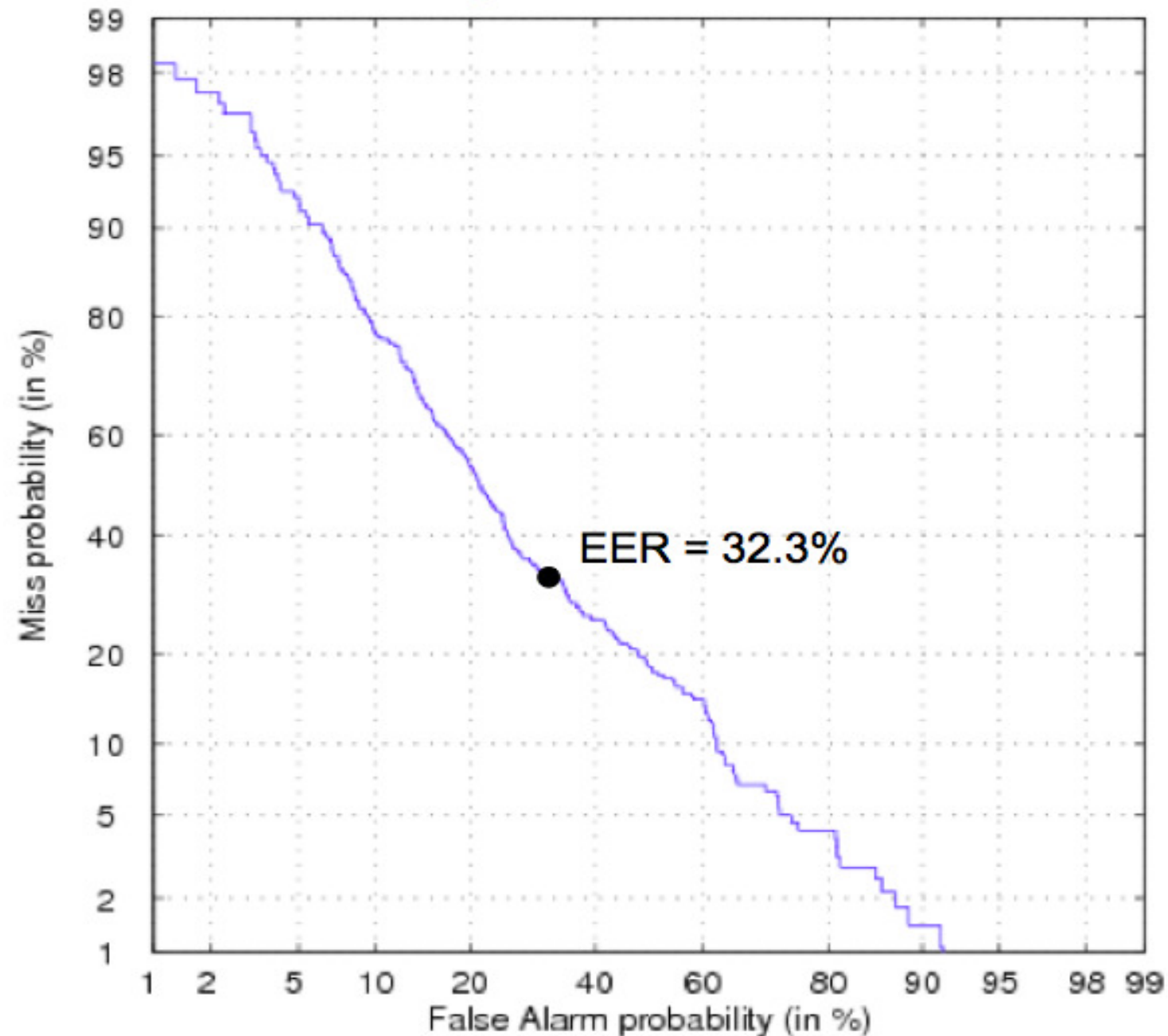- Convert to overhead model for *open-space* search:

G. Friedland, J. Choi, A. Janin: "Multimodal Location Estimation on Flickr Videos," submitted to ACM Multimedia 2011.

Audio helps too!

DET curve for city identification with 1,080-video training set and 285-video test set

EER = 32.3%

H. Lei, J. Choi, G. Friedland: "City-Identification on Flickr Videos Using Acoustic Features", ICSI Technical Report TR-11-001, submitted to ACM Multimedia 2011.

Interested?

Contact:

Gerald Friedland
International Computer Science Institute
Berkeley, CA
fractor@icsi.berkeley.edu

Work Together with:
Trevor Darrell (EECS, UC Berkeley)
trevor@eecs.berkeley.edu

More information:
http://mmle.icsi.berkeley.edu