Detecting Vanishing Points using Global Image Context in a Non-Manhattan World

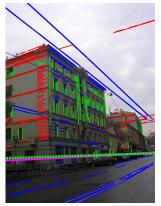
Menghua Zhai Scott Workman

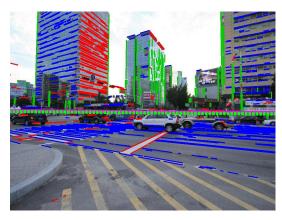
Nathan Jacobs



Goal: Localize Horizon Line and Vanishing Points

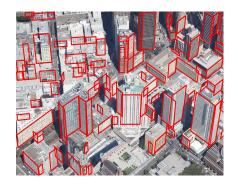








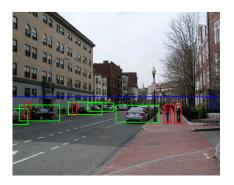
Uses of Horizon Line and Vanishing Points



Facade Detection
J.Liu and Y.Liu (CVPR
2014)



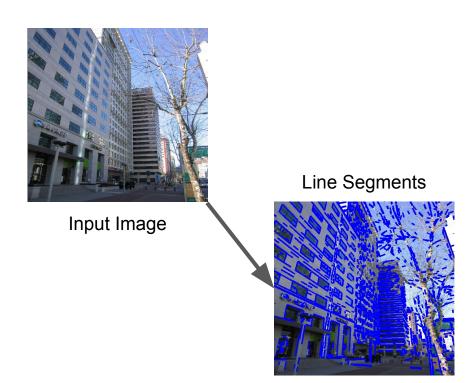
Image Mensuration A.Criminisi, I.Reid, and A. Zisserman (IJCV 2000)

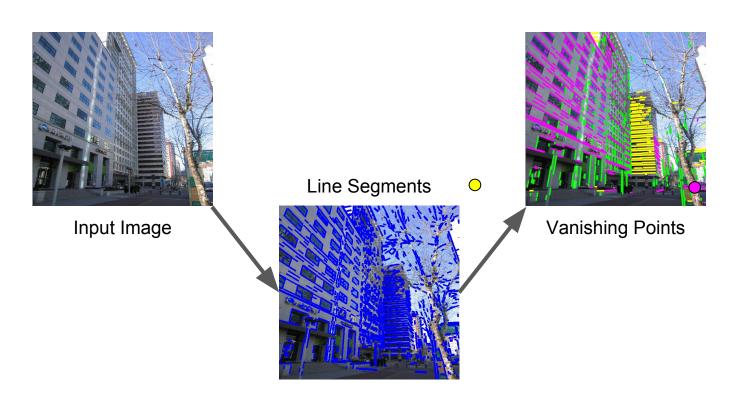


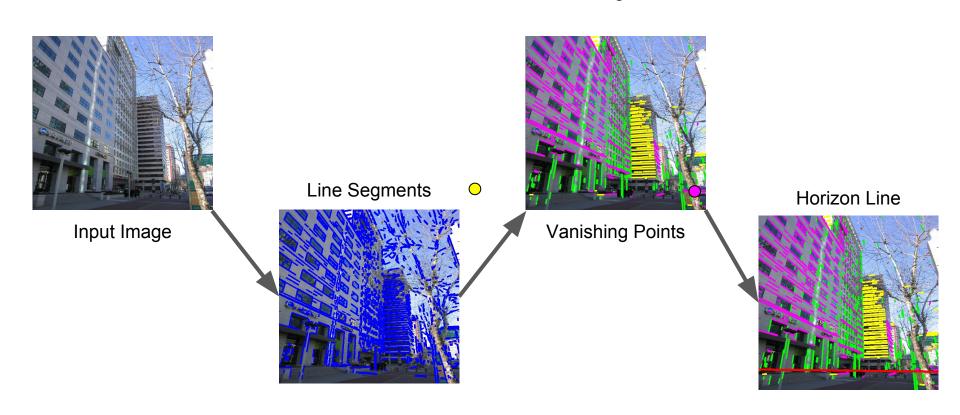
Pedestrian Detection D.Hoiem, A.Efros and M. Hebert (CVPR 2006)



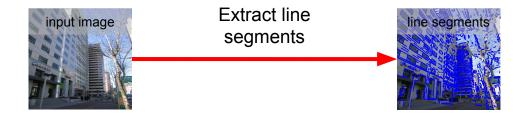
Input Image

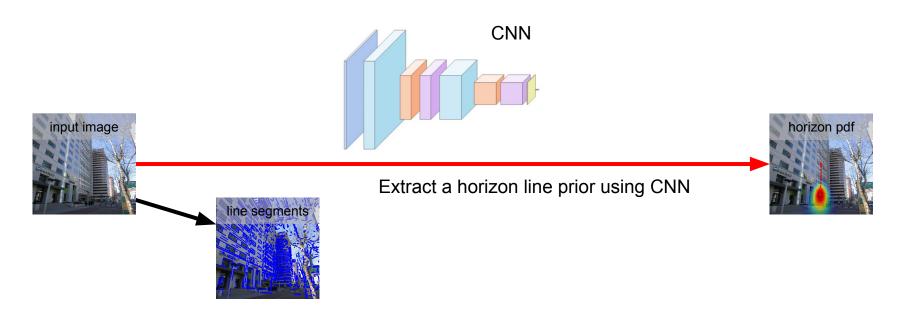


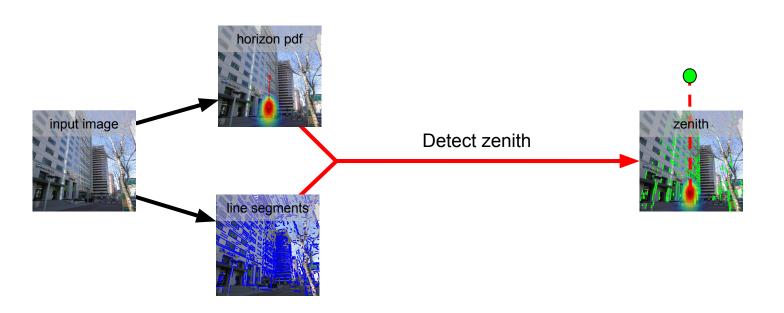


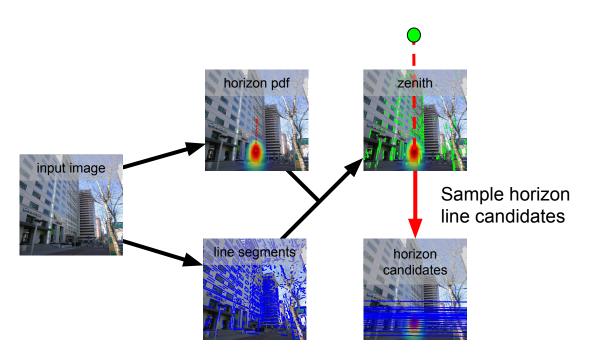


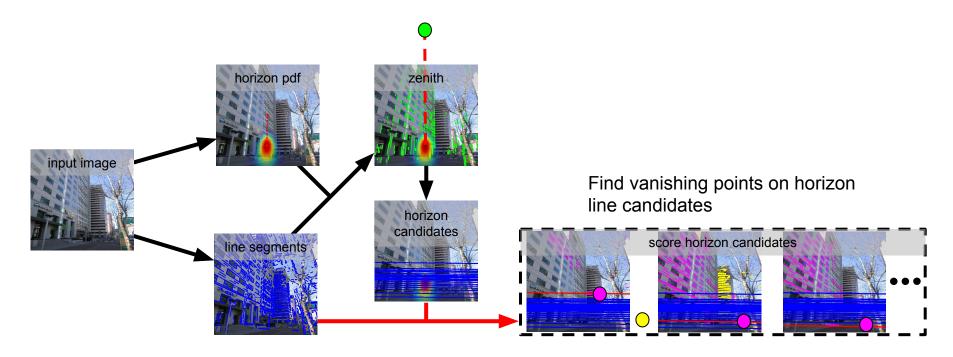


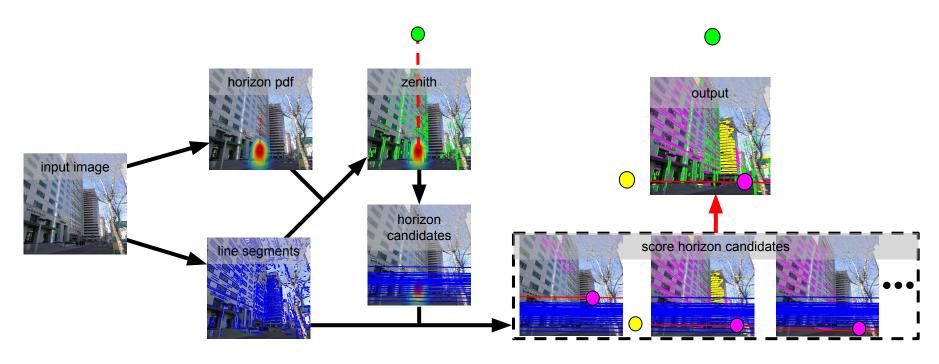












State-of-the-Art Performance



Thank You!

Poster #: 39

http://cs.uky.edu/~ted/ (code available)

