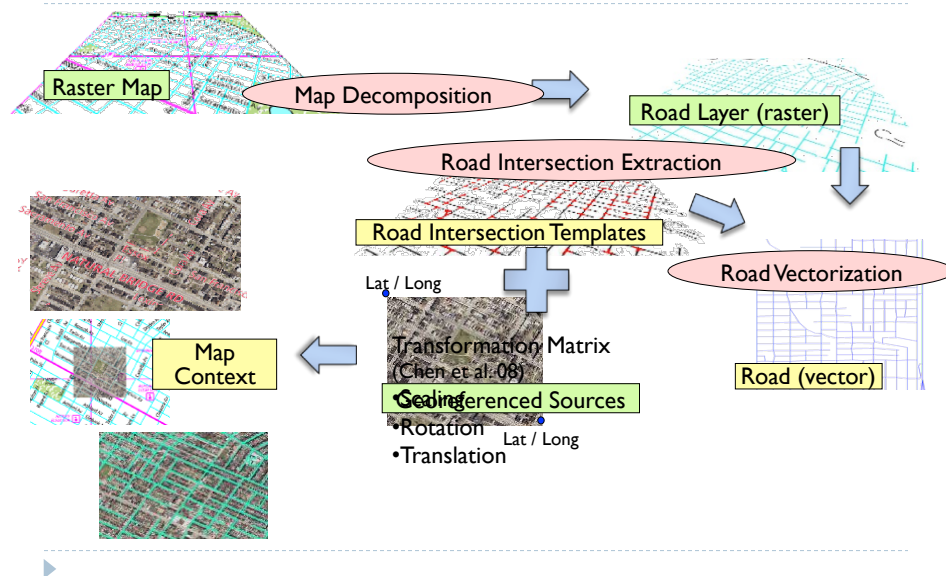


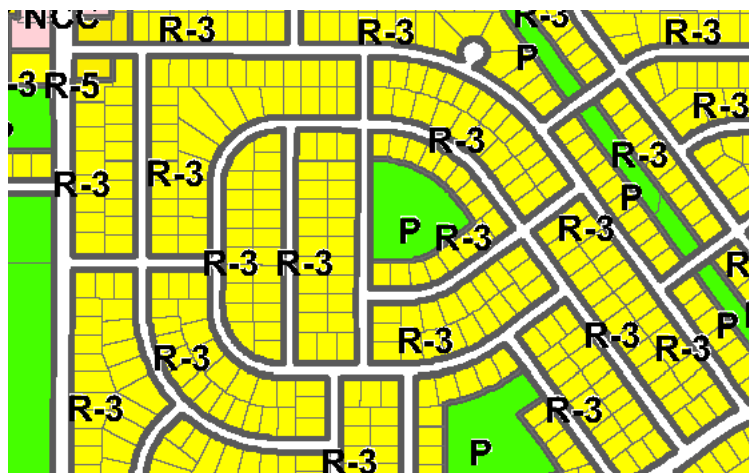
An Approach to Automatic Road Vectorization of Raster Maps

Yao-Yi Chiang and Craig Knoblock
Information Sciences Institute/ University of Southern
California

Exploiting Road Information in Raster Maps

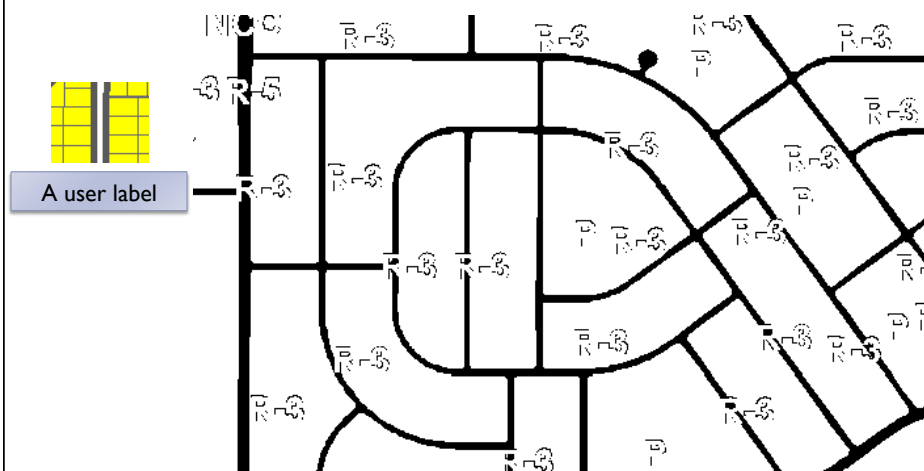


Example map



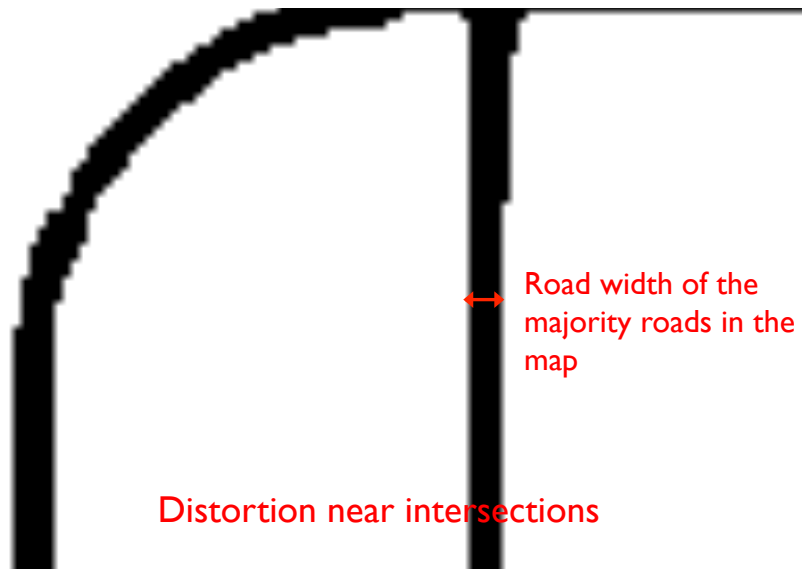
Extracting Road Pixels Using User Labels

Based on our previous work in ICDAR 09



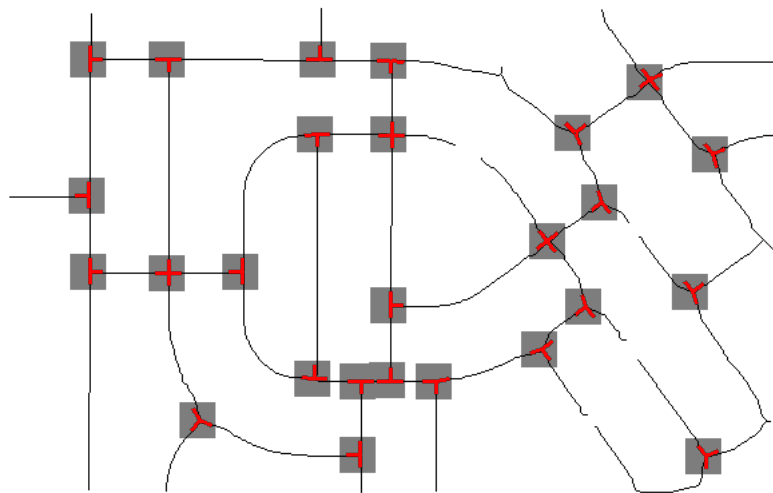
Detecting Road Width and Extracting Road Topology

(Based on our previous work in ACM GIS 05, GeoInformatica 08)

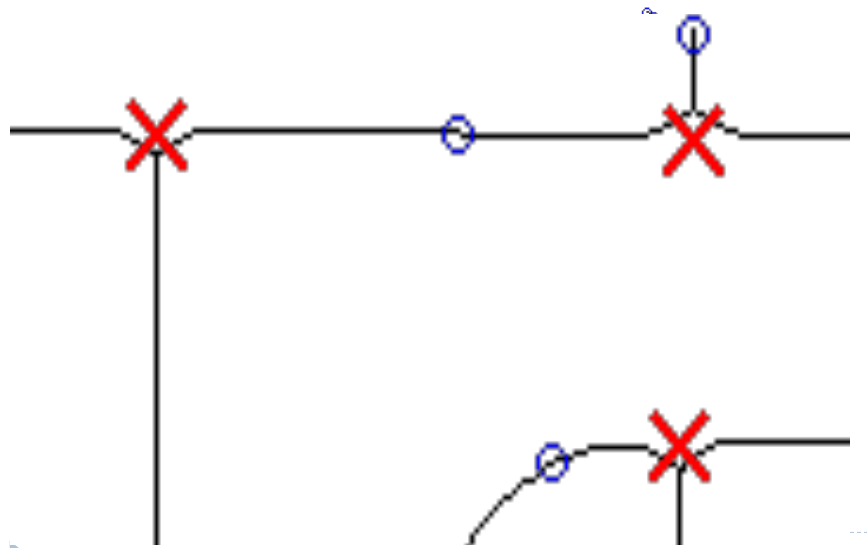


Extracting Accurate Road-Intersection Templates

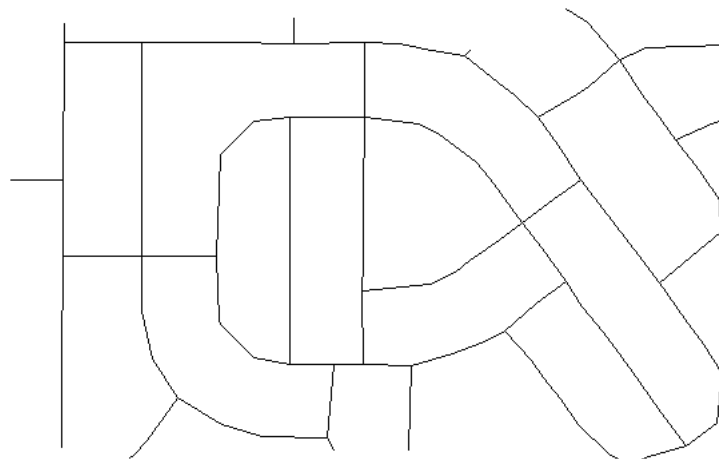
(Based on our previous work in ACM GIS 08)



Tracing Road Pixels and Updating Intersection Positions



Extracted Road Vectors



Questions?

- ▶ Thank you

