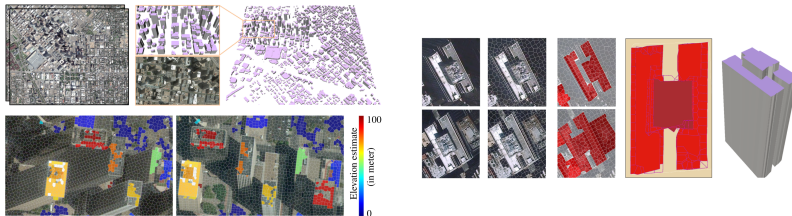# Towards Large-scale City Reconstruction from Satellites
L. Duan, and F. Lafarge (ECCV 2016)

- 3D city models from stereo pair of satellite images in a few minutes
- Geometric atomic convex polygons
- A joint classification and reconstruction for the semantic class (ground, roof, and facade) and the elevation of each polygon
- Experiments on QuickBird2, WorldView2, and Pleiades satellite images
- Not as accurate as Lidar, but produces fast, compact, and semantic-aware models robust to low resolution and occlusion problems
- Better compared to Digital Surface Models