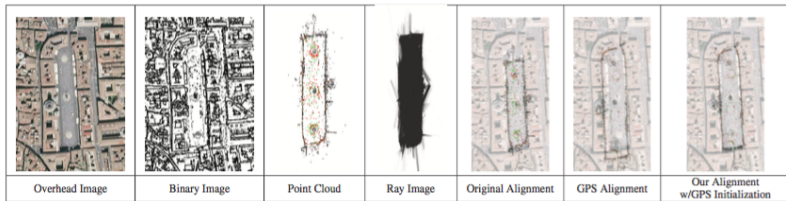


Alignment of 3D Point Clouds to Overhead Images

R. S. Kaminsky, N. Snavely, S. M. Seitz, R. Szeliski (CVPR Workshop 2009)



- ▶ Addresses the problem of automatically aligning structure-from-motion reconstructions to overhead images, such as satellite images, maps and floor plans, generated from an orthographic camera
- ▶ Contributions:
 - ▶ Computes the optimal alignment using an objective function that matches 3D points to image edges
 - ▶ Imposes free space constraints based on the visibility of points in each camera
- ▶ Evaluates on several outdoor and indoor scenes using both satellite and floor plan images