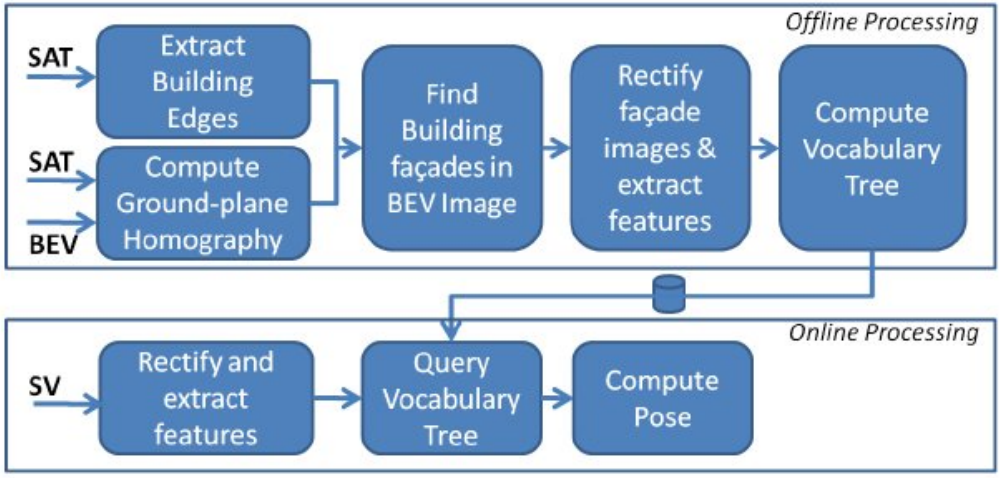
Geo-Localization of Street Views with Aerial Image Databases

M. Bansal, H. S. Sawhney, H. Cheng and K. Daniilidis (ICM 2011)



- Aerial image databases are widely available while image from the ground of urban areas is limited
- Localization of ground level images in urban areas using a database of satellite and oblique aerial images
- Method for estimating building facades by extracting line segments from satellite and aerial images
- Correspondence of building facades between aerial and ground images using statistical self-similarity with respect to other patches on a facade
- Position and orientation estimation of ground images
- Qualitative results on a region around Ridieu St. in Ottawa, Canada with BEV, Panoramio imagery and Google Street-view screen-shots