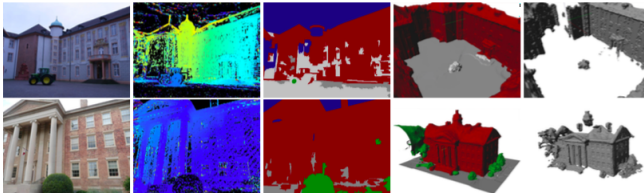


Joint 3D Scene Reconstruction and Class Segmentation

C. Haene, C. Zach, A. Cohen, R. Angst, M. Pollefeys (CVPR 2013)



- ▶ Proposes a rigorous mathematical framework to formulate and solve a joint segmentation and dense reconstruction problem
- ▶ Contributions:
 - ▶ Demonstrates that joint image segmentation and dense 3D reconstruction is beneficial for both tasks
 - ▶ Introduces a rigorous mathematical framework to formulate and solve this joint optimization task.
 - ▶ Extends volumetric scene reconstruction methods to a multi-label volumetric segmentation framework
- ▶ Evaluates on castle P-30 dataset