CMPUT 428: 3D Modeling

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Contents

1 Lecture - Mar 19

lec14 scenesAndReviewMJ12

1.1 Reconstructing Scenes

Small Scenes - one/few buildings

SFM + multi view stereo

man made scenes, prior on architectural elements

interactive systems

City Scenes - several streets; large area

aerial images

ground plane, multi cam;
SFM + stereo (+ GPS)
Depth map fusions

1.2 SFM + Stereo

dominant planes
plane sweep - homog b/w 3d plane and camera plane
refinement - architectural primitives

1.3 Priors

probabilistic mappings with primitives