3D reconstruction

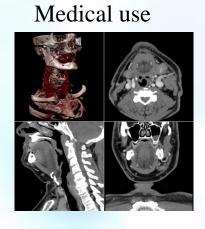
ACM528

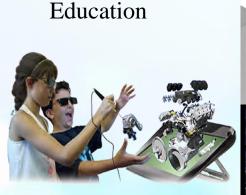


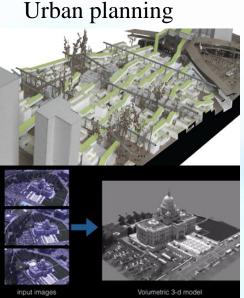
Introduction

- 3D reconstruction
 - Process of capturing & reconstruct the 3D shape and appearance of real objects.
 - Applications

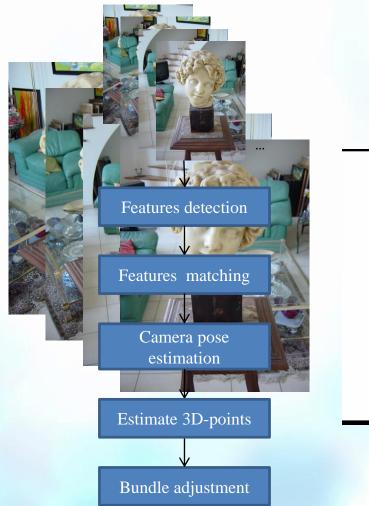
Antiquities digitalization

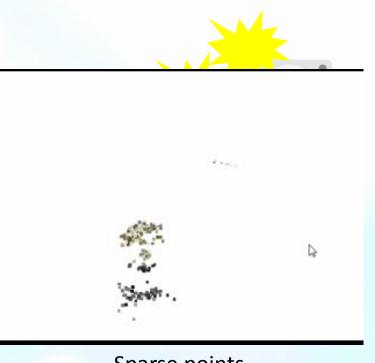






Structure from Motion [5][7][8]



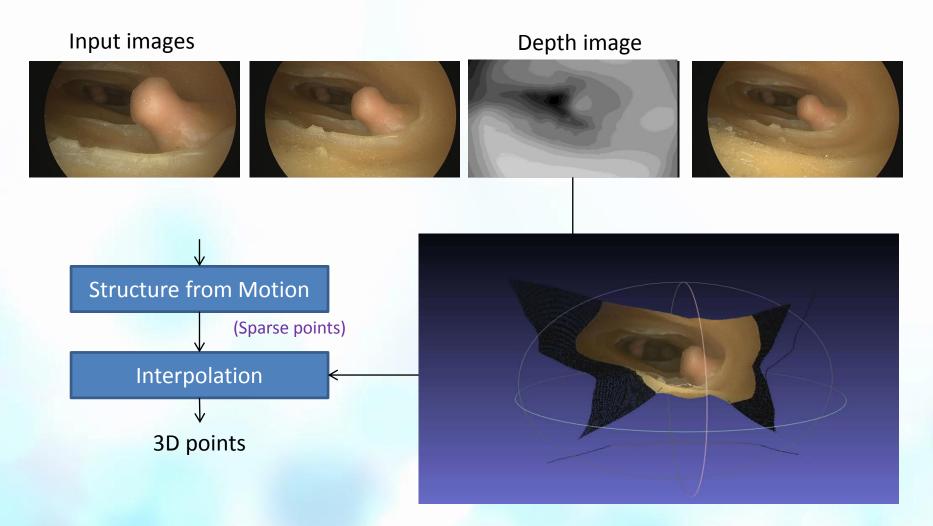




Sparse points

- [5] R. Hartley and A. Zisserman, "Multiple view geometry in computer vision," 2003.
- [7] R. Cipolla, "Chapter 13: structure from motion," Cambridge Machine Intelligence Laboratory.
- [8] JianXiong Xiao, "Multi-view 3D Reconstruction for Dummies," Princeton Vision Group.

Methods



Experiment results

GUI

