

“Sviluppo di Modelli Computazionali 3D”

(3D Models Generation)

Laboratory 06 – 21/04/2017

SfM Exercise:

1. Download VisualSFM and dataset from:
 1. http://vcg.isti.cnr.it/corsi/G3D_InfoUma/Materials/VisualSFM_windows_64bit.zip
 2. http://vcg.isti.cnr.it/corsi/G3D_InfoUma/Materials/Multi_View_Stereo.zip
2. Unzip VisualSFM_windows_64bit.zip and Multi_View_Stereo.zip
3. Run VisualSFM.
4. Proceed with the 3D reconstruction of one or more datasets following steps showed by the lecturer. Online tutorials can be found on youtube. For example:
 1. <https://www.youtube.com/watch?v=GEAbXYDzUjU>
5. Once a sparse 3D model is generated save it as a PLY.
6. Open the PLY 3D model in MeshLab.
7. Generate normals of the sparse point cloud.
8. Run Screened Poisson Reconstruction.