

### Directory Structure:

- 1) **Code:** contains the code.
  - a) **Main\_Exp\_MotionCompensateFinal.m:** The main script file. Call this to perform a comparison between 3D reconstruction results by our BSC and traditional and four-step phase shifting;
  - b) **Func\_BinomialSelfCompensation.m:** function of our BSC;
  - c) **Func\_Compute3D\_SPU.m:** this function first computes absolute phase from the wrapped phase map of both left and right cameras by stereo phase unwrapping algorithm, then computes 3D point clouds;
  - d) **Package:** other functions.
- 2) **Data:** contains calibration files and captured images:
  - a) **mCamera1Rectified.mat:** calibration matrices of the main camera;
  - b) **mCamera2Rectified.mat:** calibration matrices of the auxiliary camera;
  - c) **mProjector.mat:** calibration matrices of the projector;
  - d) **Hand:** 100 frames of captured images measuring dynamic human hand;
  - e) **Statue:** 100 frames of captured images measuring dynamic gypsum statue.
- 3) **Videos:** contains the video corresponds to Fig. 9 in the paper:
  - a) **Butterfly.mp4:** wooden butterfly model with wings flapping;
  - b) **MovingStatue.mp4:** moving statue;
  - c) **ScissorsStoneCloth.mp4:** hand showing scissors, stone, and cloth gestures;
  - d) **WavingHand.mp4:** waving hand.

### Instruction:

Call **Main\_Exp\_MotionCompensateFinal.m** to watch a comparison between 3D reconstruction results by our BSC and traditional and four-step phase shifting.