Script file for simulating images: SimulateImageScript.m

Script file for estimating shape from images: PhaseShiftingDecodeScript.m

Script file for direct-global separation: DirectGlobalEstimationScript.m

Some pointers:

1. The simulateimagescript is slow. I ran the script on a cluster to get images in reasonable time. One way to speed-up is to reduce the resolution (increase the value of the variable ShapeRes in SimulateImageScript.m). Using too high a value may result in poor results though.

One good compromise is to use a high resolution for computing the direct component, and a lower resolution for the global component. For example, you can use a value of ShapeRes = 0.011 for the direct component, and ShapeRes = 0.05 for the global component. This will speed-up the code quite a bit.

1. Most of the parameters are defined within the files. If you have questions, feel free to contact me at mohitg@cs.columbia.edu