**Adaptive foveated single-pixel imaging with dynamic supersampling: data**

Prepared by David Phillips on 11/4/2017.

**Notes:**

This file contains the raw images (referred to as sub-frames in the paper) recorded for each results figure (i.e. figs 2-5). These sub-frame images were all reconstructed in real time by the camera and displayed to the operator during the experiments. Figure 1 is a schematic of the experimental set-up and so is not included in this data file.

**Contents:**

The word document ‘Adaptive foveated single-pixel imaging with dynamic supersampling’ is the final revised version uploaded to the Science Advances website.

*Figure 2:*

This contains 2 folders:

* ‘uniform cat’ contains a series of uniform resolution sub-frames, one of which is displayed in Fig. 2(c).
* ‘foveated cat’ contains a series of space-variant resolution sub-frames, one of which is displayed in Fig. 2(f).

*Figure 3:*

This contains 2 folders:

* ‘foveated resolution target’ contains space-variant resolution sub-frames imaging a resolution target. Some of these sub-frames are displayed in Fig. 3(a, 1-4). These sub-frames are then combined using the methods described in the paper to generate Figs 3(b & c).
* ‘foveated dots’ contains space-variant resolution sub-frames imaging a uniform grid of dots. These sub-frames are processed using the methods described in the paper to generate Fig. 2(d).

*Figure 4:*

This contains 3 folders:

* ‘foveated ’ contains space-variant resolution sub-frames imaging a resolution target with a sign that moves in-front of the resolution target during filming. Some of these sub-frames are displayed in Fig. 4(b, i-iv). These sub-frames are then combined using the methods described in the paper to generate Figs 4(c, i-iv).
* ‘uniform’ contains sub-frames imaging a similar scene to described above with a uniform resolution. Some of these sub-frames are displayed in Fig. 4(d).
* ‘blip’ contains the uniform resolution fast blip frames that are interlaced with the foveated sub-frames. Two of these sub-frames are displayed in Fig. 4(a, i-ii). These are then processed as described in the paper to generate Figs 4(a, iii-iv).

Figure 5:

This contains 2 folders:

* ‘wavelet’ contains space-variant resolution sub-frames imaging a picture of a bird. These are then processed as described in the paper to generate Figs 5(d-g).
* ‘Infra-red’ contains dual fovea sub-frames processed as described in the paper to generate Fig. 5(h,i).