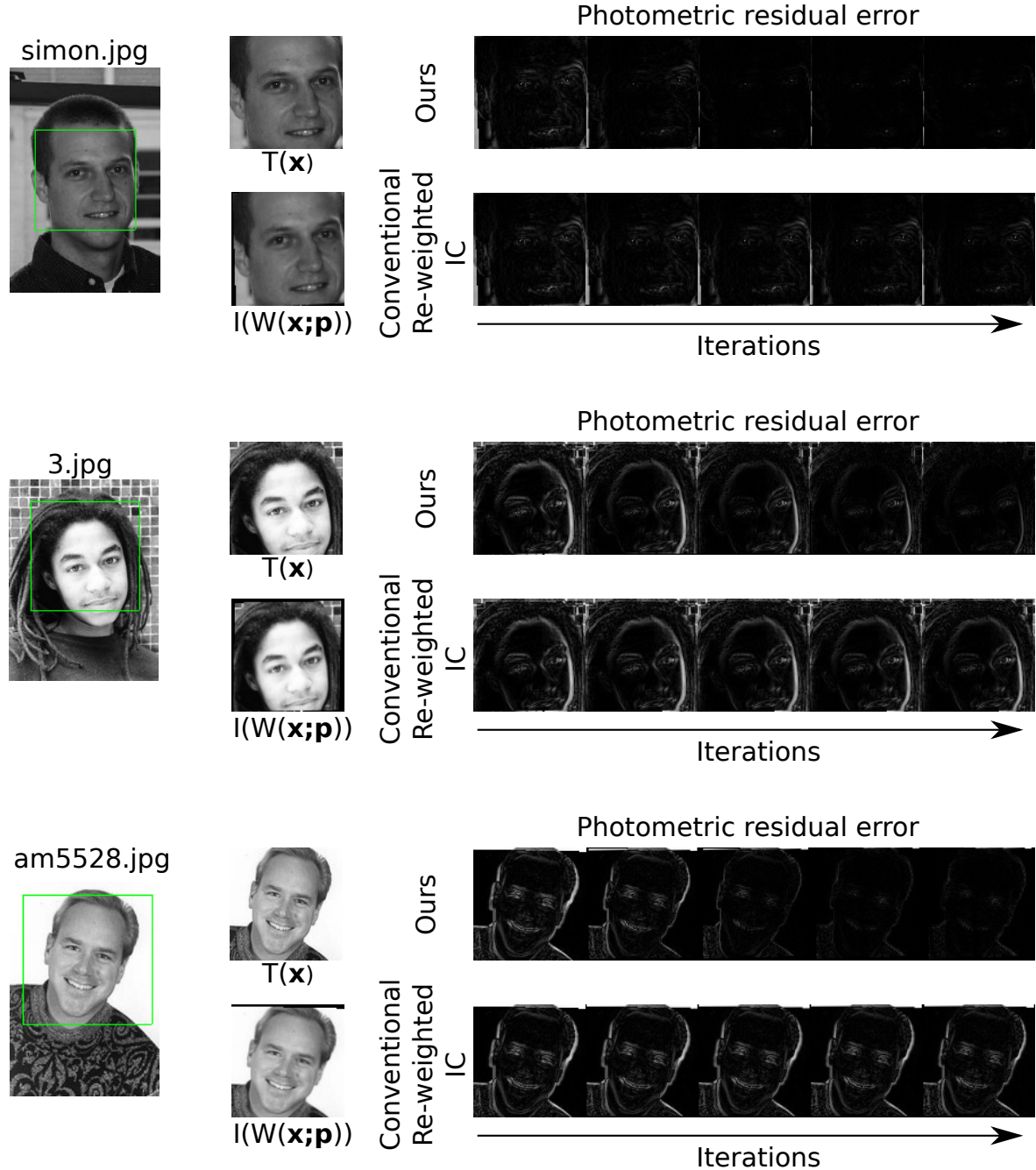


This supplementary document provides additional qualitative results for different input images showing how the photometric error changes with the number of iterations for our proposed method and the conventional re-weighted inverse compositional (IC) algorithm. The layout of the images is similar to Figure 6 of the BMVC paper submission.

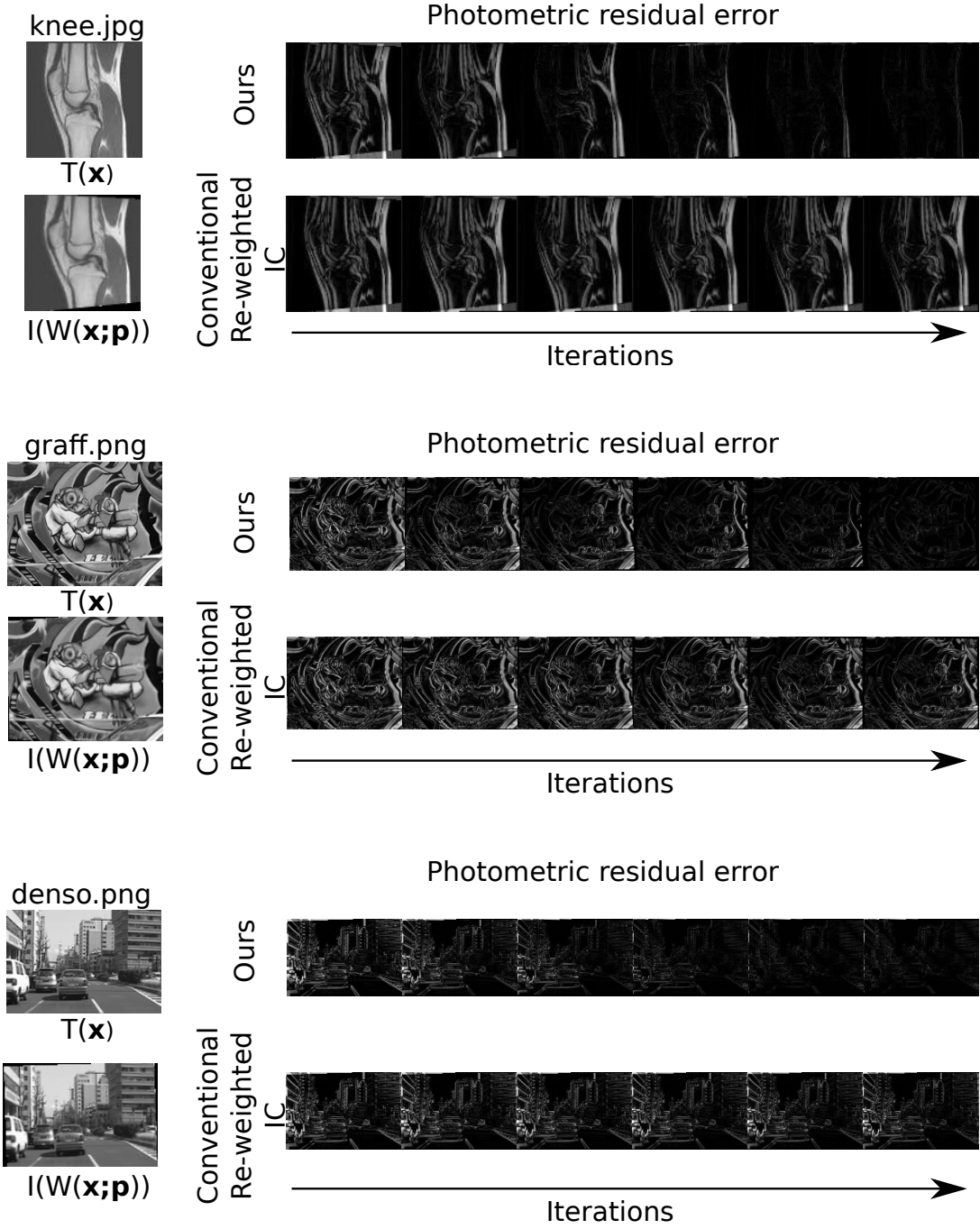
## 1 Affine warps



The images used are made publicly available by other researchers from CMU<sup>1</sup>.

<sup>1</sup>The images "3.jpg" and "am5528.jpg" can be obtained from:  
[vasc.rh.cmu.edu/idb/html/face](http://vasc.rh.cmu.edu/idb/html/face)  
 The image "simon.jpg" can be obtained from:  
[www.rh.cmu.edu/research\\_project\\_detail.html?project\\_id=515&menu\\_id=261](http://www.rh.cmu.edu/research_project_detail.html?project_id=515&menu_id=261)

## 2 Homography

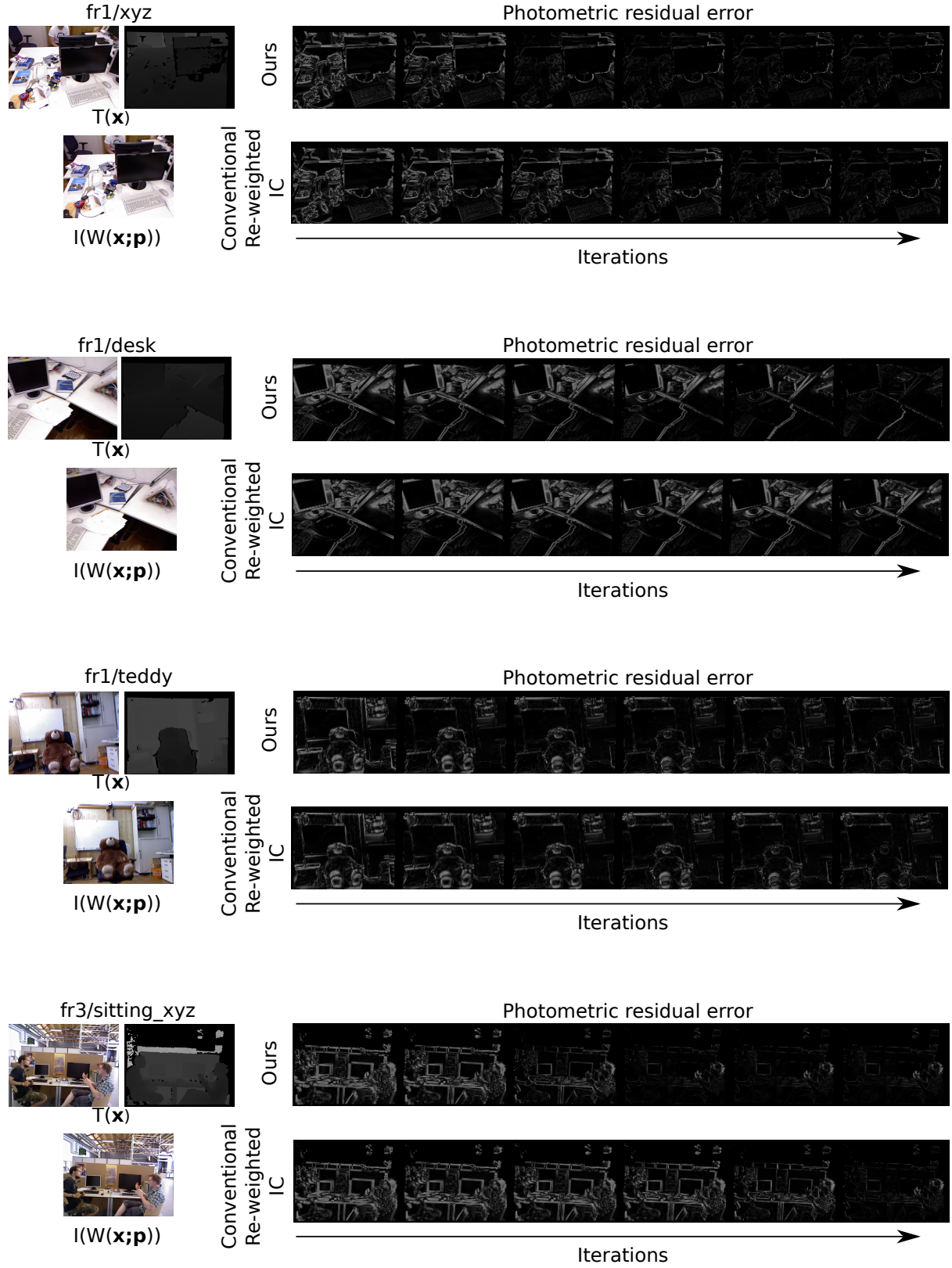


Similarly, the images used have been made publicly available by other researchers<sup>2</sup>.

<sup>2</sup>The images "knee.jpg" and "denso.png" are obtained from:  
[www.ri.cmu.edu/research\\_project\\_detail.html?project\\_id=515&menu\\_id=261](http://www.ri.cmu.edu/research_project_detail.html?project_id=515&menu_id=261)  
 The image "graff.png" is obtained from:  
[kahlan.eps.surrey.ac.uk/featurespace/web/data.htm](http://kahlan.eps.surrey.ac.uk/featurespace/web/data.htm)

### 3 SE(3) Warps

All images are obtained from the TUM RGB-D dataset <sup>3</sup>.



<sup>3</sup><http://vision.in.tum.de/data/datasets/rgbd-dataset>