Supplementary material: Trainable Joint Bilateral Filters for Enhanced Prediction Stability in Low-dose CT

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| Scan ID | x start | x end | y start | y end | z start | z end |
|---------|---------|-------|---------|-------|---------|-------|
| L006    | 190     | 240   | 170     | 210   | 204     | 214   |
| L033    | 150     | 380   | 95      | 130   | 0       | 11    |
| L049    | 205     | 320   | 275     | 380   | 6       | 9     |
| L058    | 450     | 500   | 230     | 300   | 205     | 209   |
| L075    | 200     | 315   | 160     | 250   | 16      | 28    |
| L077    | 215     | 300   | 455     | 480   | 7       | 9     |
| L107    | 230     | 340   | 430     | 460   | 74      | 82    |
| L114    | 460     | 500   | 190     | 250   | 10      | 15    |
| L134    | 70      | 170   | 220     | 360   | 6       | 7     |
| L148    | 35      | 240   | 135     | 260   | 0       | 38    |
| L160    | 215     | 285   | 280     | 340   | 99      | 114   |
| L170    | 175     | 330   | 205     | 340   | 37      | 115   |
| L178    | 105     | 185   | 245     | 310   | 0       | 7     |
| L187    | 210     | 300   | 375     | 420   | 33      | 45    |
| L193    | 200     | 305   | 175     | 250   | 161     | 168   |
| L203    | 200     | 415   | 240     | 325   | 11      | 55    |
| L232    | 210     | 270   | 270     | 310   | 151     | 159   |

Table 1. Coordinates of the 17 investigated abdomen ROIs in scans of the TCIA Low Dose CT Image and Projection data set (Version 4)¹. ROIs are defined by their start and end pixel index (starting from 0) in all three dimensions. Figure 1 illustrates exemplary CT slices that contain each ROI.
Figure 1. Exemplary low-dose input slices with all 17 selected 3D abdomen ROIs (highlighted in red) that contain metal parts. The patients from Table 1 are plotted from left to right and from top to bottom. Note that all ROIs are chosen around three-dimensional objects such that metal pieces are not always found in the center of some of the displayed ROIs. The reconstruction window is $[-150, 500]$ HU.
References

1. Moen, T. R. et al. Low-dose CT image and projection dataset. *Med. Phys.* **48**, 902–911, DOI: https://doi.org/10.1002/mp.14594 (2021).