Supplementary Materials

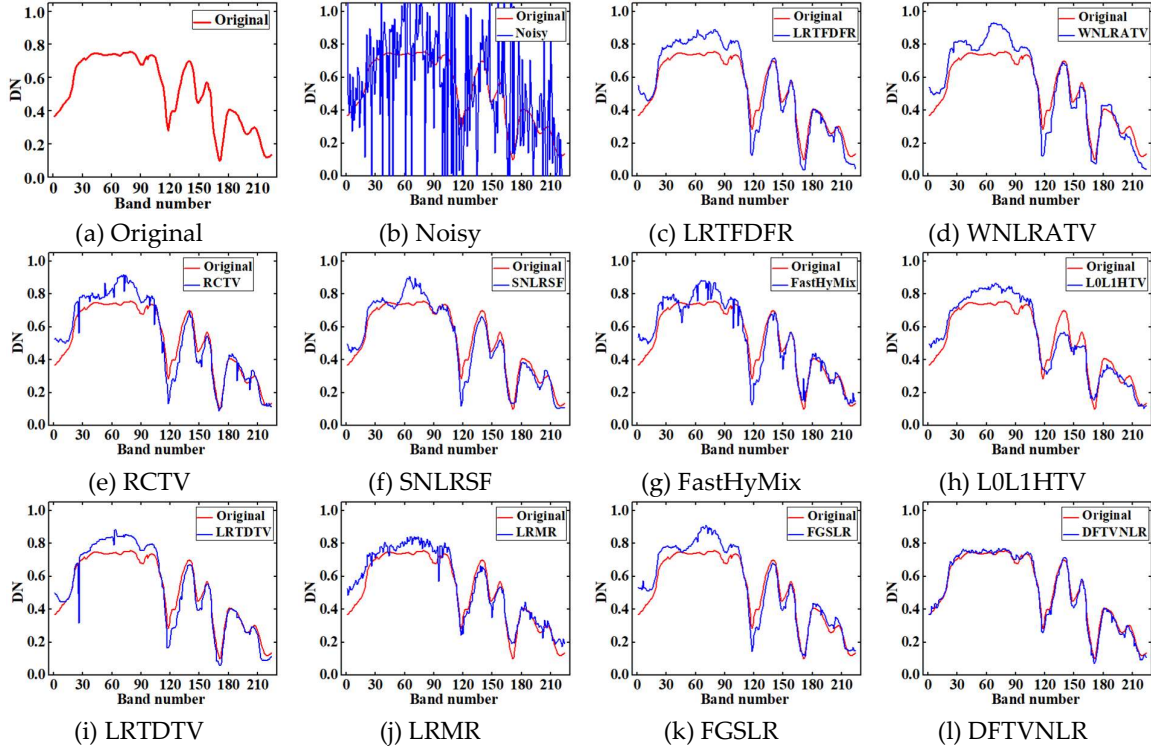## 1. Supplementary data to Figure 8

Figure S1. The spectral curves at spatial location (30, 30) of the Indian Pines dataset under noise Case 3 by different compared methods. (a) Original, (b) Noisy, (c) LRTFDFR, (d) WNLRATV, (e) RCTV, (f) SNLRSF, (g) FastHyMix, (h) L0L1HTV, (i) LRTDTV, (j) LRMR, (k) FGSLR, (l) DFTVNLR (proposed).
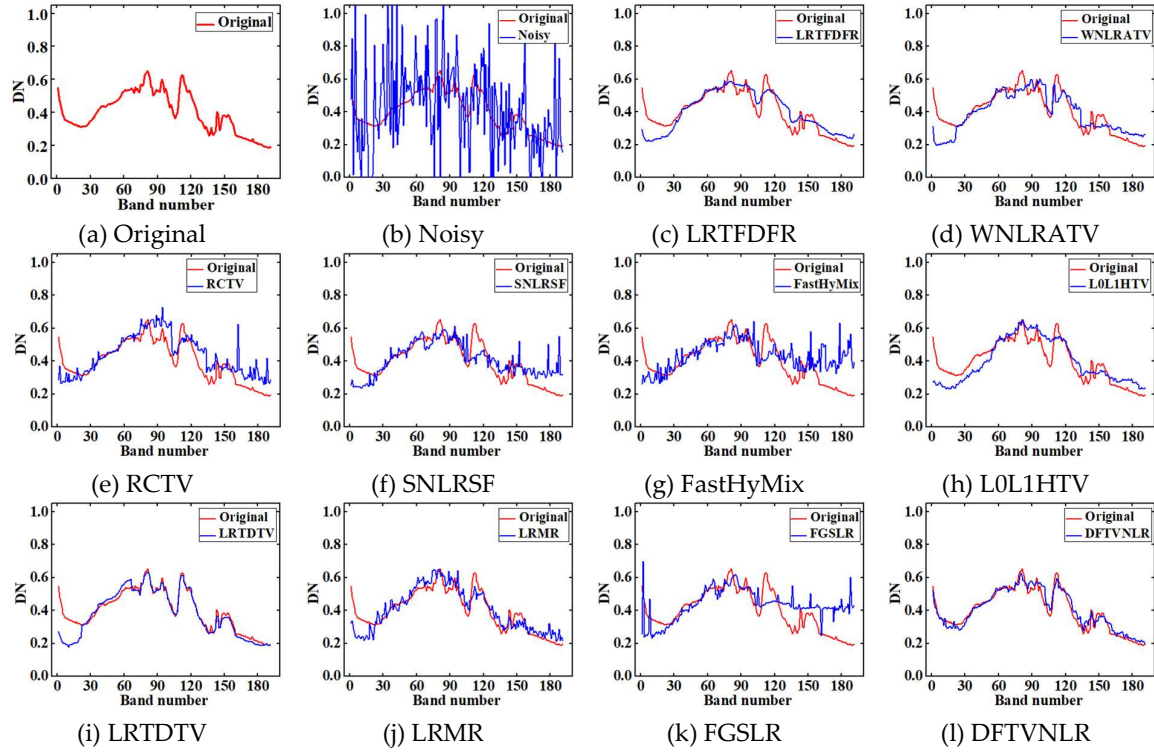
2. Supplementary data to Figure 9

Figure S2. The spectral curves at spatial location (151, 151) of the WDC Mall dataset under noise Case 4 by different compared methods. (a) Original, (b) Noisy, (c) LRTFDFR, (d) WNLRATV, (e) RCTV, (f) SNLRSF, (g) FastHyMix, (h) L0L1HTV, (i) LRTDTV, (j) LRMR, (k) FGSLR, (l) DFTVNLR (proposed).