because the fusion rules, which are designed in this paper, are very effective and can extract almost all the useful information of the source images and transfer it to the fused image, no matter the image fusion method is in the LSWT domain or in NSCT domain.

Three source images with different blur regions, as shown in Figs.5 (h)–(j), are used to evaluate the fusion performance in the third experiment. To make better comparisons, the difference images between the fused images and the reference image, which is shown in Fig.5 (g), are given in Figs.10 (i)–(p). For clearer comparison, the labeled parts of Figs.10 (i)–(p) are extracted and shown in Figs.10 (q)–(x). From Figs.10 (q)–(x), the same conclusion can be drawn that the proposed method outperforms others methods.