

Comparison with several state-of-the-art methods



Fig.1. SGF($r=12$, $\sigma=0.065$, $n_{itr}=4$); RTV($\lambda=0.02$, $\sigma=4$); BTF($k=7$, $n_{itr}=4$); SBF($k=7$, $n_{itr}=4$); ITF($k=7, c=3$, $n_{itr}=4$); SSBF($\sigma=3$, $n_{itr}=4$); Ours($k=9$, $n_{itr}=4$).

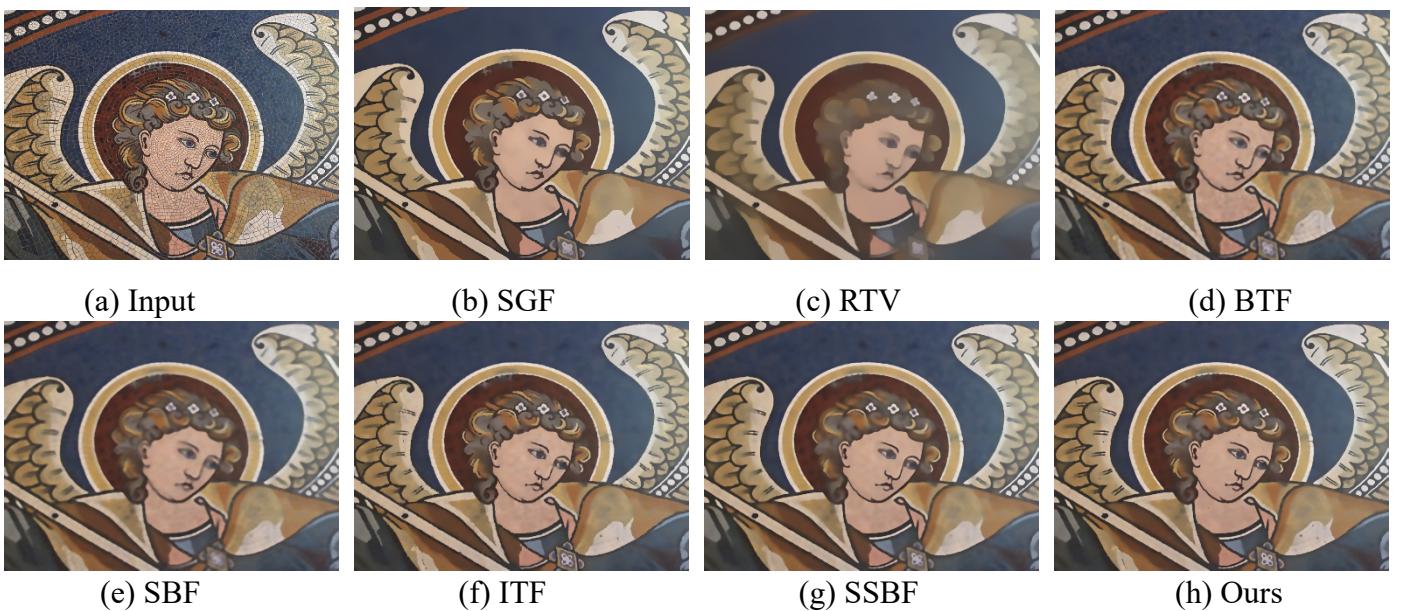


Fig.2. SGF($r=10$, $\sigma=0.065$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=7$, $n_{itr}=4$); SBF($k=9$, $n_{itr}=4$); ITF($k=15$, $c=3$, $n_{itr}=2$); SSBF($\sigma=3$, $n_{itr}=4$); Ours($k=9$; $n_{itr}=4$).



(a) Input

(b) SGF

(c) RTV

(d) BTF

(e) SBF

(f) ITF

(g) SSBF

(h) Ours

Fig.3. SGF($r=10$, $\sigma=0.05$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=11$, $n_{itr}=4$); SBF($k=11$, $n_{itr}=4$); ITF($k=13$, $c=3$, $n_{itr}=4$); SSBF($\sigma=5$, $n_{itr}=4$); Ours($k=11$, $n_{itr}=4$).



(a) Input

(b) SGF

(c) RTV

(d) BTF

(e) SBF

(f) ITF

(g) SSBF

(h) Ours

Fig.4. SGF($r=16$, $\sigma=0.1$, $n_{itr}=4$); RTV($\lambda=0.01$, $\sigma=4$); BTF($k=7$, $n_{itr}=4$); SBF($k=7$, $n_{itr}=4$); ITF($k=11$, $c=3$, $n_{itr}=4$); SSBF($\sigma=5$, $n_{itr}=4$); Ours($k=15$; $n_{itr}=4$).

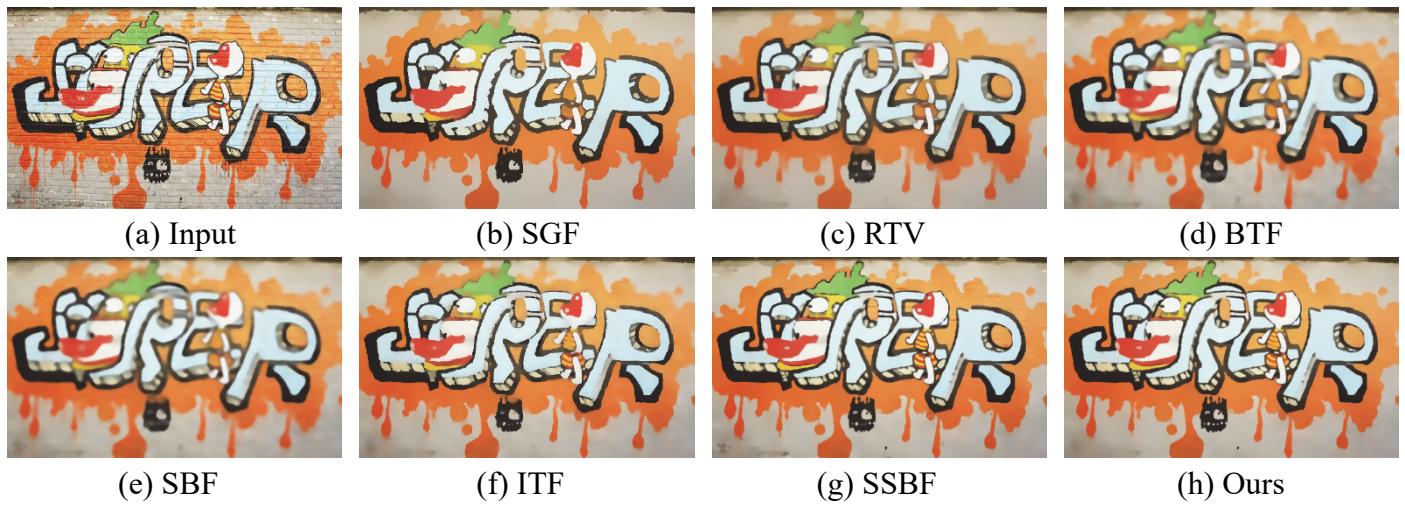


Fig.5. SGF($r=16$, $\sigma=0.1$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=6$); BTF($k=9$, $n_{itr}=3$); SBF($k=9$, $n_{itr}=5$); ITF($k=15, c=3$, $n_{itr}=3$); SSBF($\sigma=5$, $n_{itr}=3$); Ours($k=15$; $n_{itr}=3$).



Fig.6. SGF($r=12$, $\sigma=0.055$, $n_{itr}=3$); RTV($\lambda=0.02$, $\sigma=6$); BTF($k=9$, $n_{itr}=4$); SBF($k=11$, $n_{itr}=4$); ITF($k=15$, $c=3$, $n_{itr}=3$); SSBF($\sigma=5$, $n_{itr}=3$); Ours($k=15$, $n_{itr}=3$);

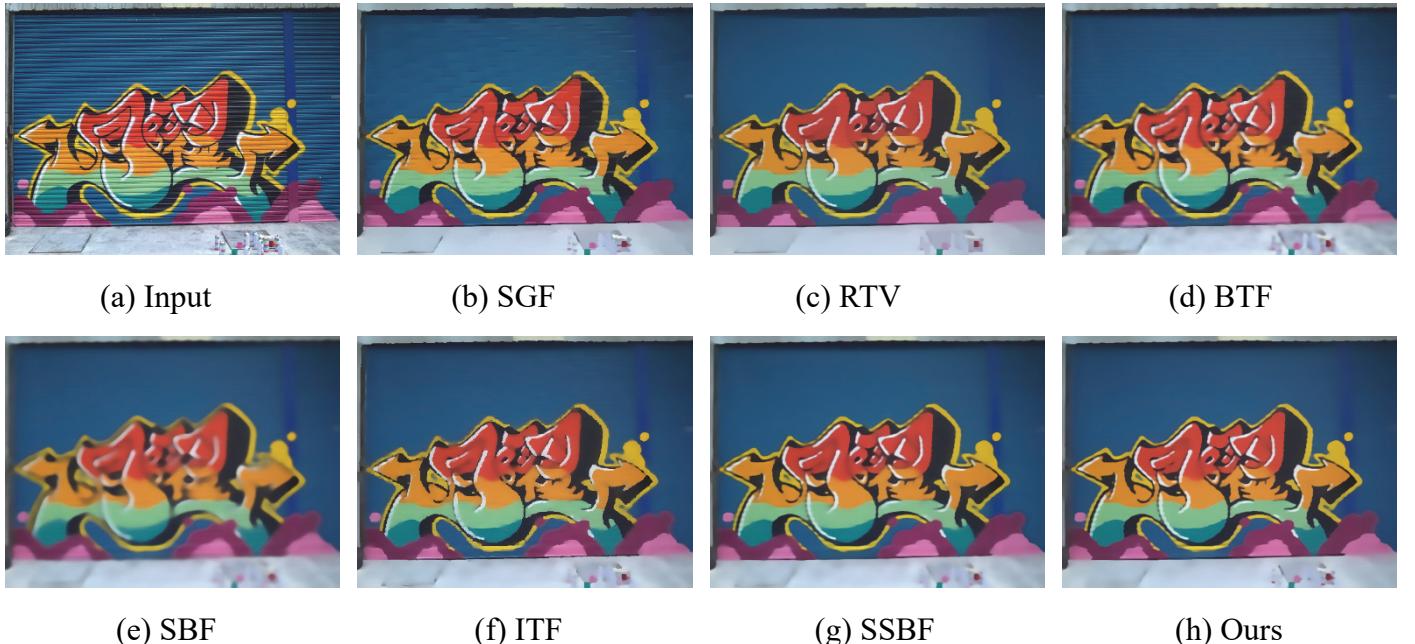


Fig.7. SGF($r=12$, $\sigma=0.065$, $n_{itr}=3$); RTV($\lambda=0.02$, $\sigma=3$); BTF($k=7$, $n_{itr}=4$); SBF($k=7$, $n_{itr}=3$); ITF($k=15$, $c=3$, $n_{itr}=4$); SSBF($\sigma=4$, $n_{itr}=4$); Ours($k=13$; $n_{itr}=4$).

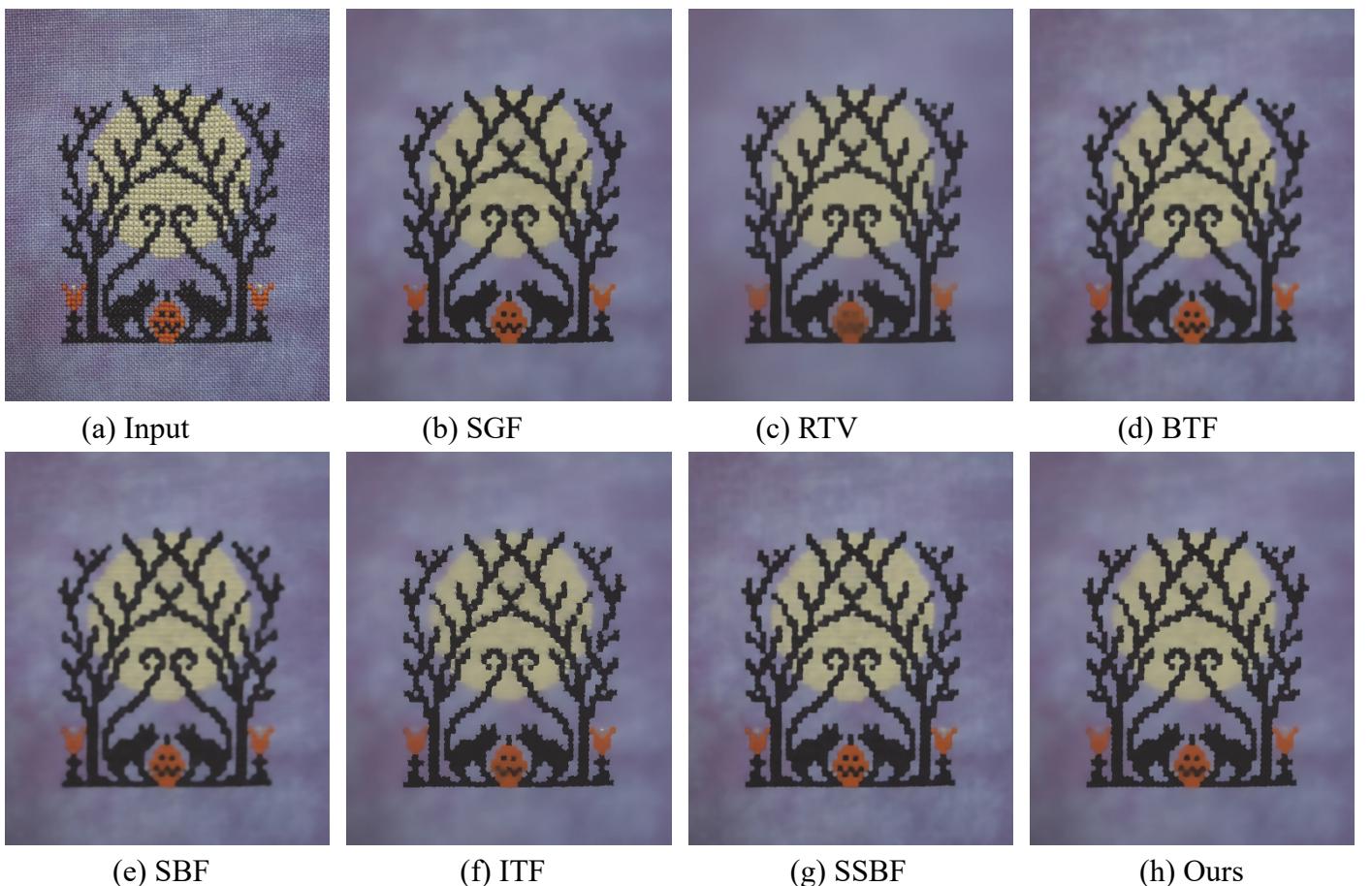


Fig.8. SGF($r=8$, $\sigma=0.05$, $n_{itr}=3$); RTV($\lambda=0.015$, $\sigma=6$); BTF($k=9$, $n_{itr}=3$); SBF($k=9$, $n_{itr}=3$); ITF($k=11, c=3$, $n_{itr}=3$); SSBF($\sigma=3$, $n_{itr}=4$); Ours($k=11$; $n_{itr}=4$).

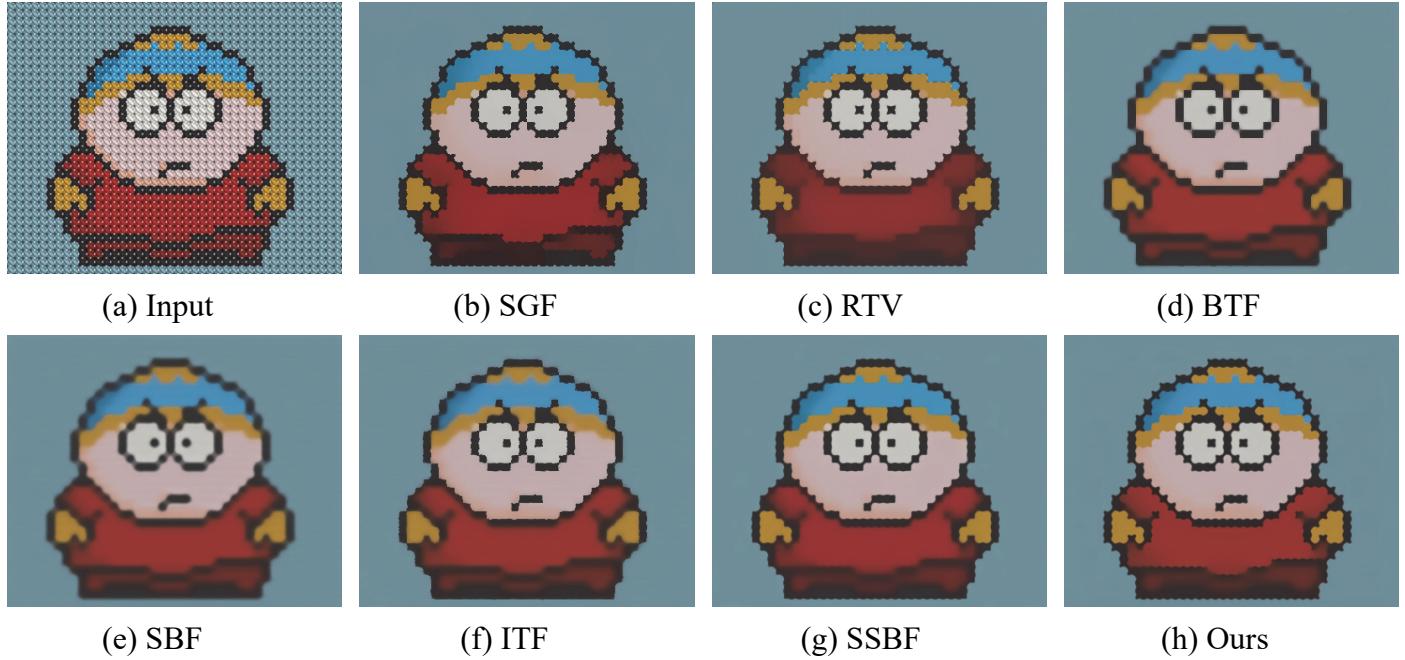


Fig.9. SGF($r=10$, $\sigma=0.1$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=9$, $n_{itr}=3$); SBF($k=9$, $n_{itr}=3$); ITF($k=15$, $c=3$, $n_{itr}=3$); SSBF($\sigma=4$, $n_{itr}=4$); Ours($k=13$; $n_{itr}=4$).

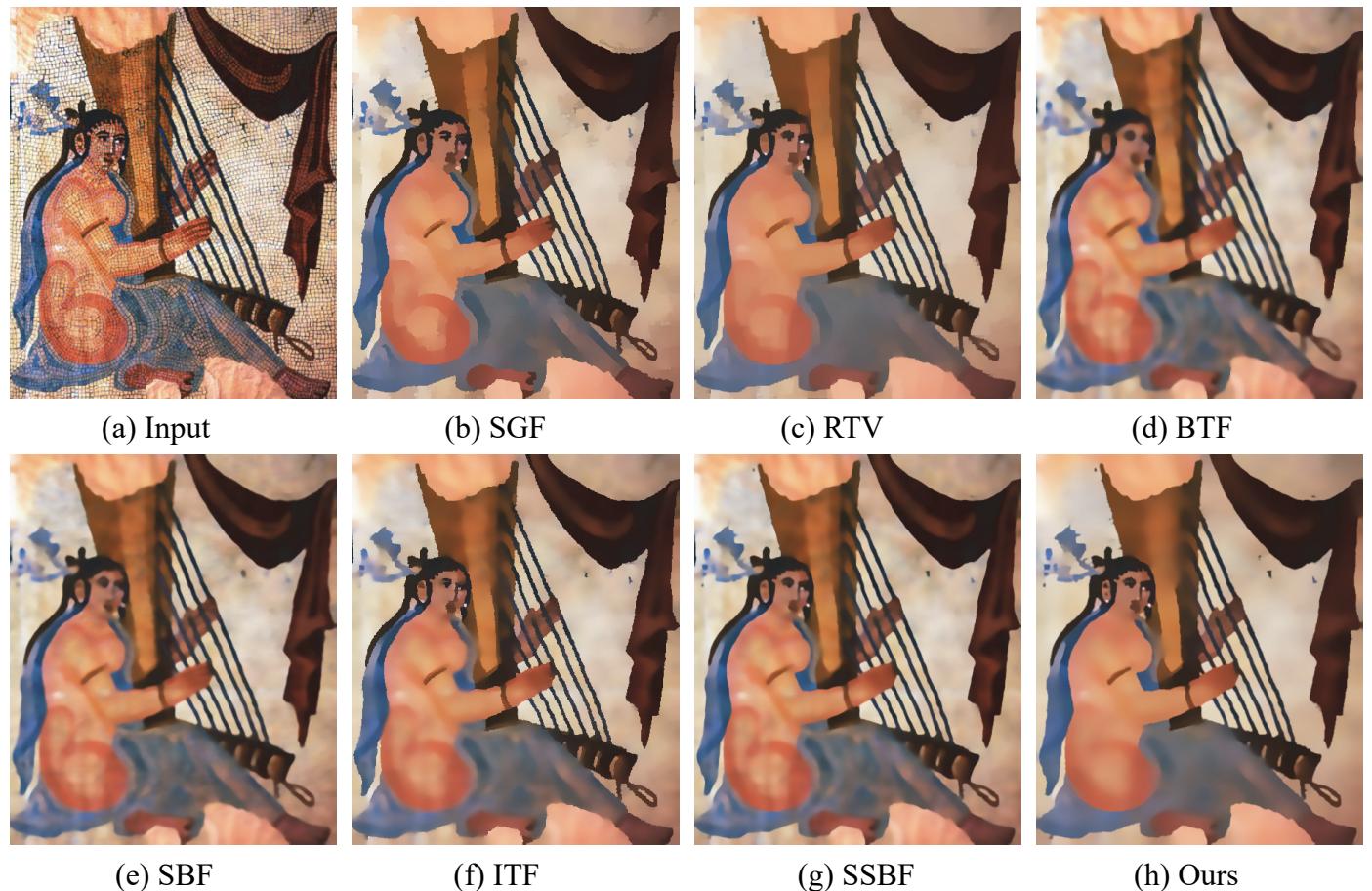


Fig.10. SGF($r=12$, $\sigma=0.065$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=9$, $n_{itr}=3$); SBF($k=7$, $n_{itr}=3$); ITF($k=11$, $c=3$, $n_{itr}=3$); SSBF($\sigma=3$, $n_{itr}=4$); Ours($k=11$, $n_{itr}=4$).

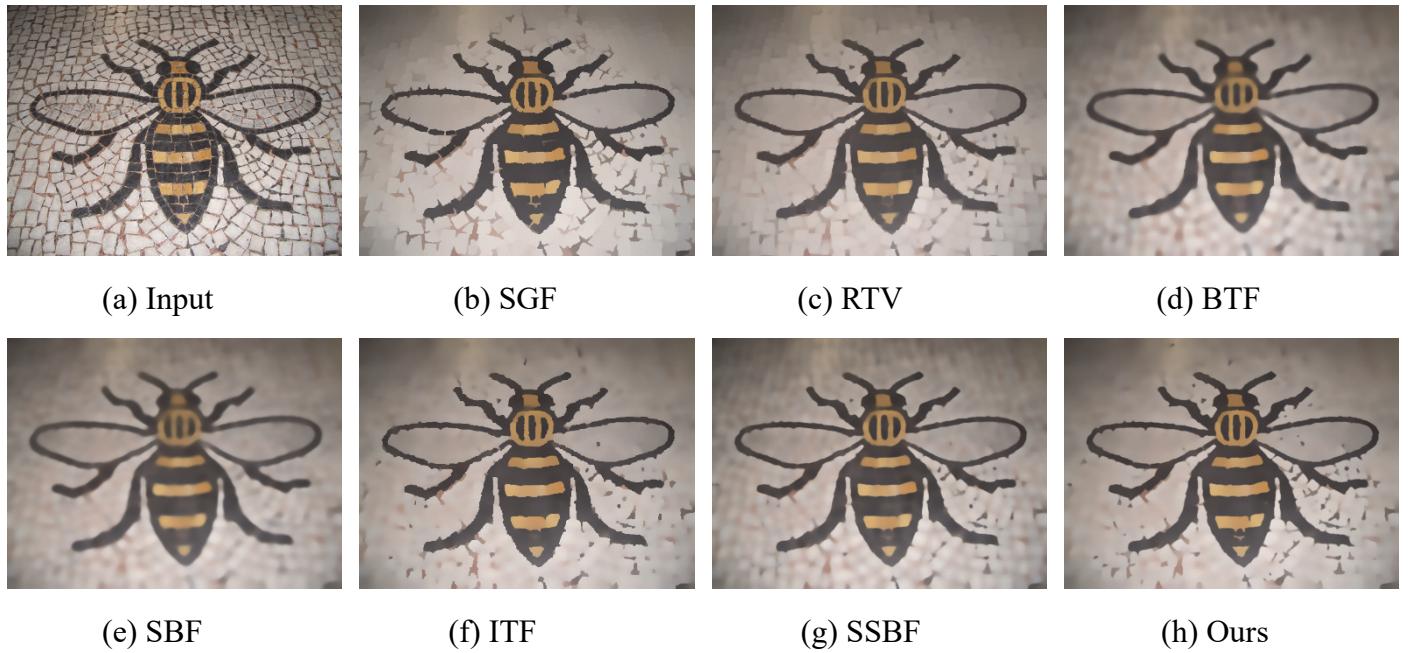


Fig.11. SGF($r=12$, $\sigma=0.065$, $n_{itr}=6$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=11$, $n_{itr}=4$); SBF($k=11$, $n_{itr}=4$); ITF($k=19, c=3$, $n_{itr}=5$); SSBF($\sigma=4$, $n_{itr}=5$); Ours($k=13$; $n_{itr}=5$).

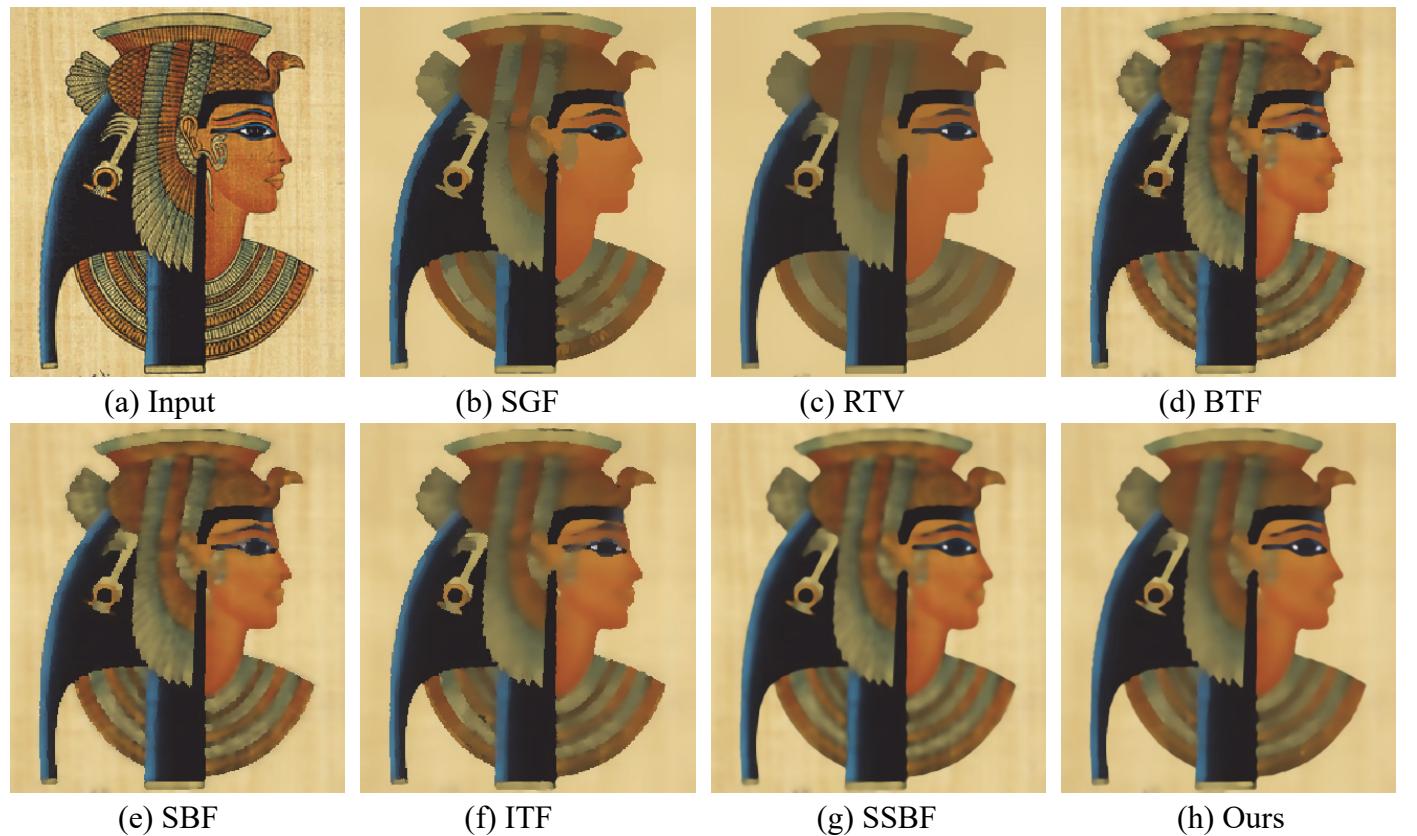


Fig.12. SGF($r=10$, $\sigma=0.06$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=3$); BTF($k=5$, $n_{itr}=3$); SBF($k=7$, $n_{itr}=2$); ITF($k=11, c=3$, $n_{itr}=2$); SSBF($\sigma=2$, $n_{itr}=4$); Ours($k=7$; $n_{itr}=4$).

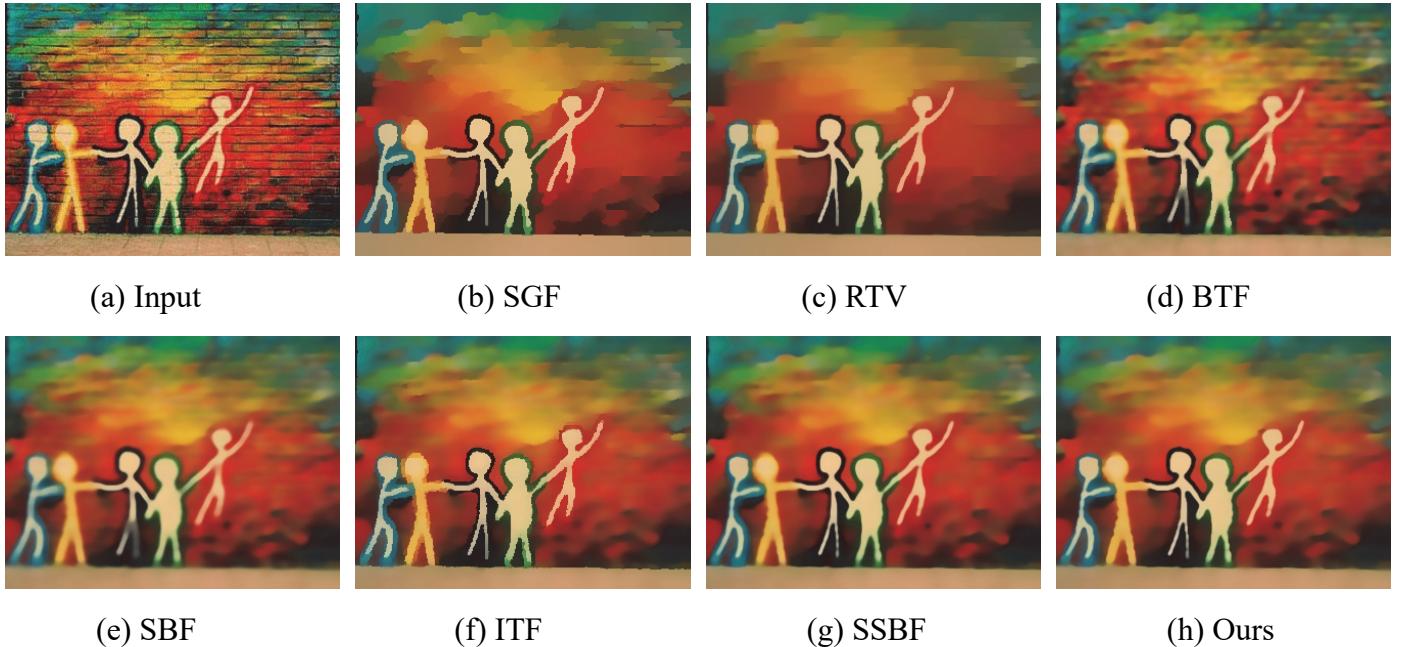


Fig.13. SGF($r=10$, $\sigma=0.065$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=3$); BTF($k=7$, $n_{itr}=3$); SBF($k=7$, $n_{itr}=3$); ITF($k=11$, $c=3$, $n_{itr}=3$); SSBF($\sigma=3$, $n_{itr}=3$); Ours($k=9$; $n_{itr}=3$).

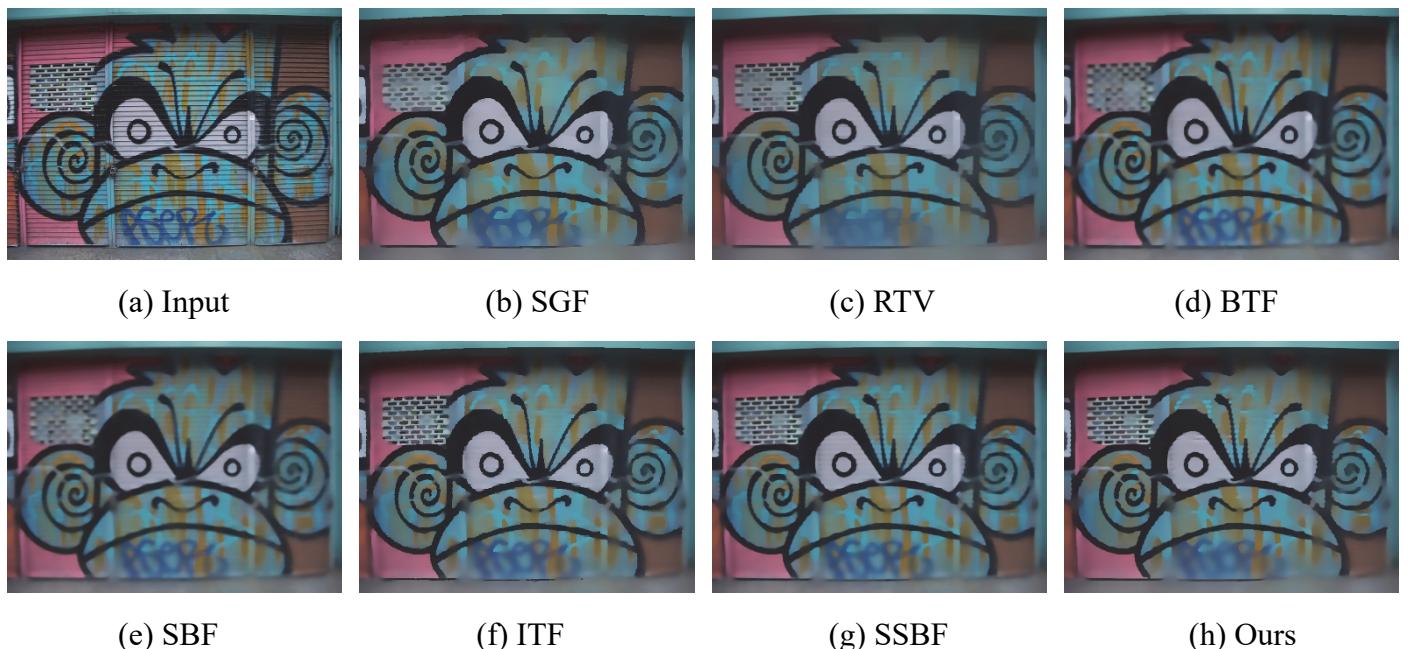


Fig.14. SGF($r=10$, $\sigma=0.1$, $n_{itr}=4$); RTV($\lambda=0.02$, $\sigma=4$); BTF($k=9$, $n_{itr}=4$); SBF($k=9$, $n_{itr}=4$); ITF($k=15$, $c=5$, $n_{itr}=4$); SSBF($\sigma=4$, $n_{itr}=4$); Ours($k=13$; $n_{itr}=4$).

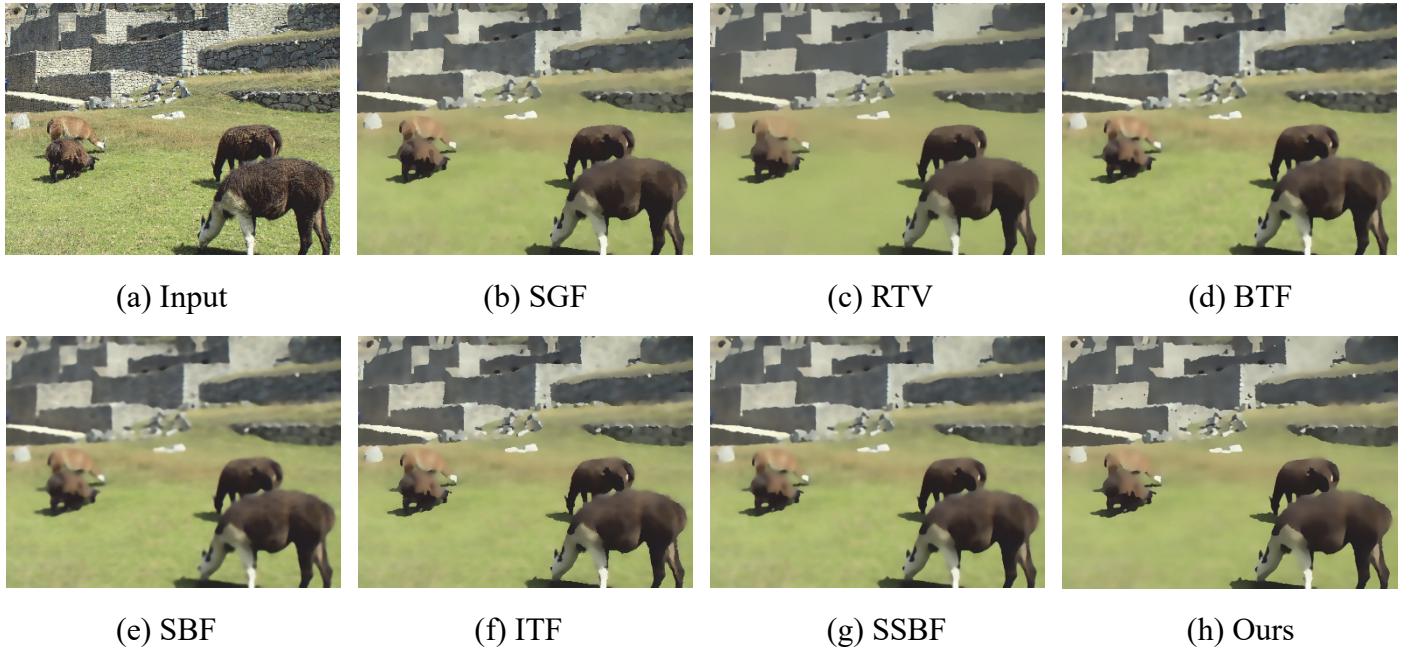


Fig.15. SGF($r=10$, $\sigma=0.065$, $n_{itr}=2$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=11$, $n_{itr}=3$); SBF($k=9$, $n_{itr}=3$); ITF($k=11$, $c=3$, $n_{itr}=3$); SSBF($\sigma=4$, $n_{itr}=4$); Ours($k=13$; $n_{itr}=4$).

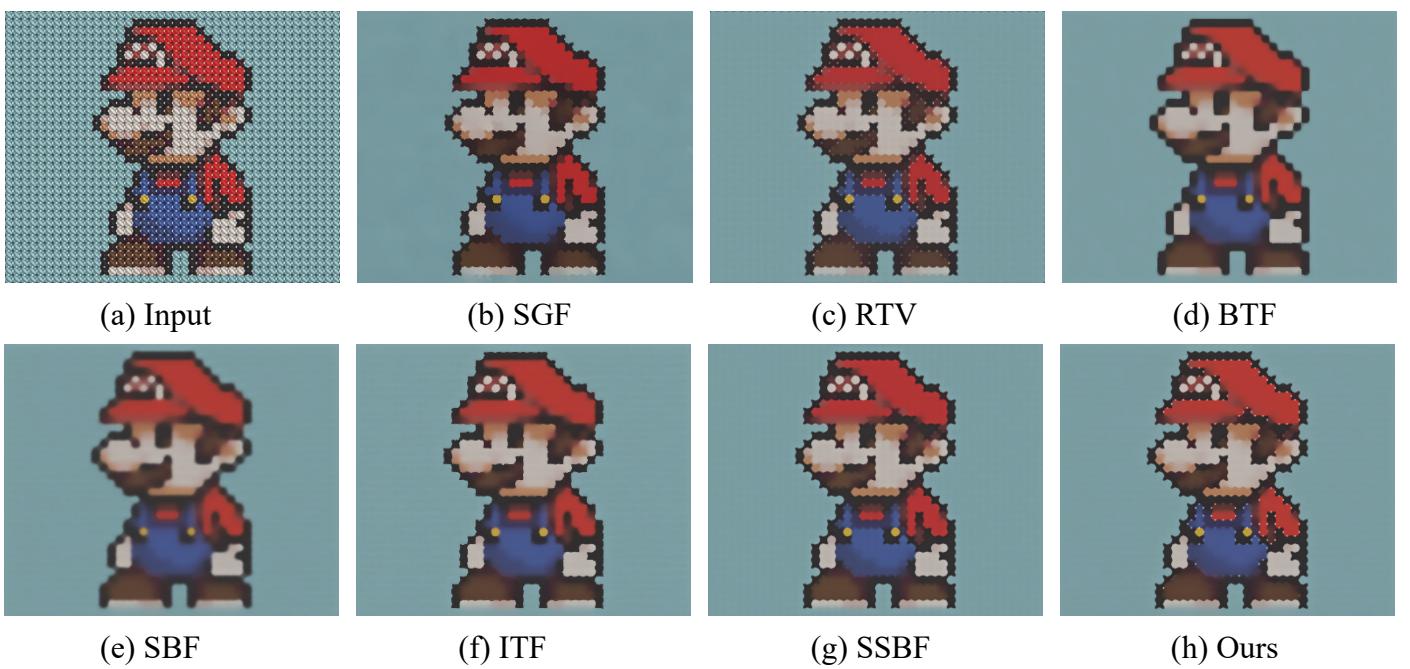


Fig.16. SGF($r=10$, $\sigma=0.06$, $n_{itr}=4$); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=11$, $n_{itr}=4$); SBF($k=11$, $n_{itr}=4$); ITF($k=15$, $c=3$, $n_{itr}=4$); SSBF($\sigma=4$, $n_{itr}=4$); Ours($k=13$; $n_{itr}=4$).



(a) Input

(b) SGF

(c) RTV

(d) BTF



(e) SBF

(f) ITF

(g) SSBF

(h) Ours

Fig.17. SGF($r=12$, $\sigma=0.08$, nitr=6); RTV($\lambda=0.015$, $\sigma=4$); BTF($k=7$, nitr=3); SBF($k=9$, nitr=3); ITF($k=11$, $c=3$, nitr=3); SSBF($\sigma=4$, nitr=5); Ours($k=13$; nitr=5).s



(a) Input

(b) SGF

(c) RTV

(d) BTF



(e) SBF

(f) ITF

(g) SSBF

(h) Ours

Fig.18. SGF($r = 12$, $\sigma = 0.15$, $n_{itr} = 4$); RTV($\lambda = 0.025$, $\sigma = 6$); BTF($k=9$, $n_{itr}=3$); SBF($k=11$, $n_{itr}=3$); ITF($k=13, c=3$, $n_{itr}=3$); SSBF($\sigma=3$, $n_{itr}=3$); sOurs($k=9$, $n_{itr}=3$).



Fig.19. SGF($r=10$, $\sigma=0.065$, $n_{itr}=3$); RTV($\lambda=0.01$, $\sigma=6$); BTF($k=5$, $n_{itr}=4$); SBF($k=7$, $n_{itr}=4$); ITF($k=9, c=3$, $n_{itr}=3$); SSBF($\sigma=3$, $n_{itr}=3$); Ours($k=9$, $n_{itr}=3$).

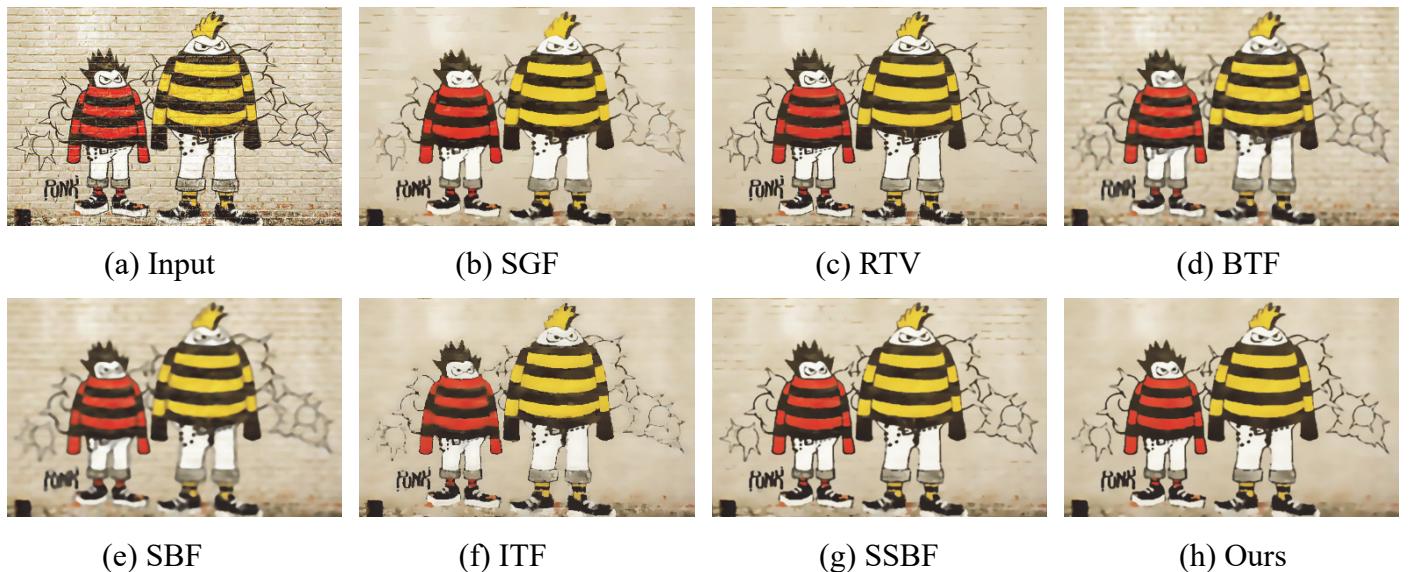


Fig.20. SGF($r=10$, $\sigma=0.065$, $n_{itr}=3$); RTV($\lambda=0.01$, $\sigma=3$); BTF($k=7$, $n_{itr}=2$); SBF($k=7$, $n_{itr}=3$); ITF($k=15, c=3$, $n_{itr}=2$); SSBF($\sigma=3$, $n_{itr}=3$); Ours($k=9$, $n_{itr}=3$).

The detail statistics of the user study ($\sqrt{}$: better result)

	User1		User2		User3		User4		User5		User6		User7	
	RTV	Ours	RTV	Ours	RTV	Ours	BTF	Ours	BTF	Ours	BTF	Ours	SBF	Ours
Fig.1		✓		✓		✓		✓		✓		✓		✓
Fig.2		✓	✓			✓		✓		✓		✓		✓
Fig.3		✓		✓		✓		✓		✓		✓		✓
Fig.4		✓		✓	✓			✓		✓		✓		✓
Fig.5		✓		✓		✓		✓		✓		✓		✓
Fig.6		✓		✓		✓		✓		✓		✓		✓
Fig.7	✓			✓		✓		✓		✓		✓		✓
Fig.8	✓			✓		✓	✓			✓		✓		✓
Fig.9		✓		✓	✓		✓			✓		✓		✓
Fig.10		✓	✓		✓			✓		✓		✓		✓
Fig.11	✓		✓			✓		✓		✓	✓		✓	
Fig.12		✓		✓	✓			✓		✓		✓		✓
Fig.13	✓		✓			✓		✓		✓		✓		✓
Fig.14		✓		✓		✓		✓		✓		✓		✓
Fig.15	✓			✓	✓			✓		✓	✓			✓
Fig.16		✓		✓		✓		✓		✓		✓		✓
Fig.17	✓		✓		✓		✓		✓			✓		✓
Fig.18		✓	✓		✓									
Fig.19	✓		✓			✓		✓	✓			✓		✓
Fig.20		✓		✓		✓		✓		✓		✓		✓
Statistics	RTV: 21/60		Ours:39/60				BTF: 9/60		Ours:51/60					

