

Supplementary: Photorealistic Stylization through Endmember-assisted Residual Mapping

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2. Stylized results for the first dataset [1]



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 1: Visual comparison for input 1 in the first dataset.



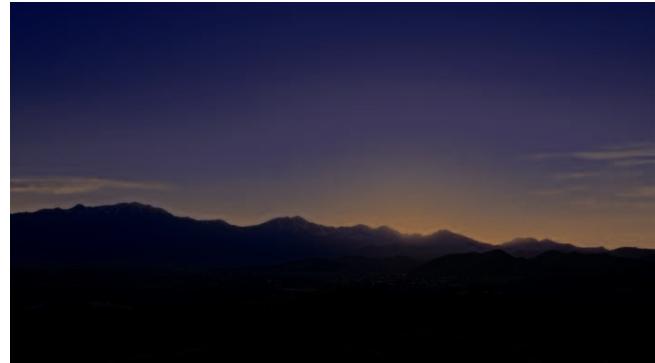
(a) Content



(b) Style



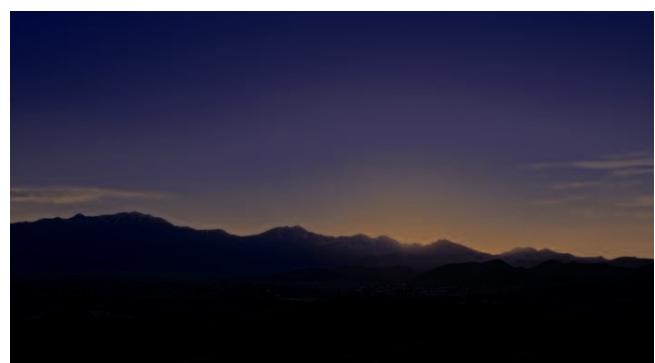
(c) LST [2]



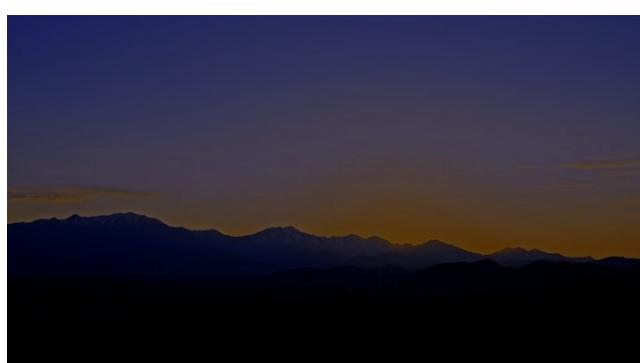
(d) Ours



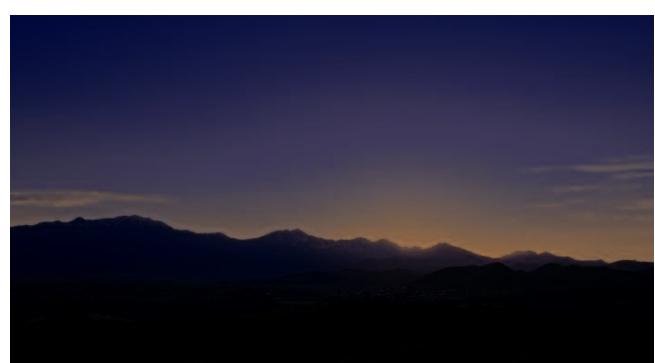
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 2: Visual comparison for input 2 in the first dataset.



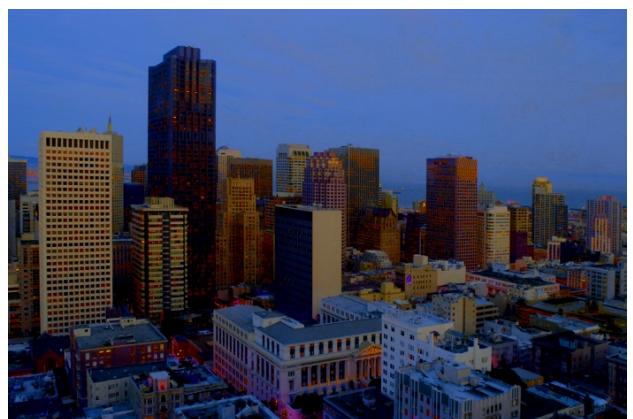
(a) Content



(b) Style



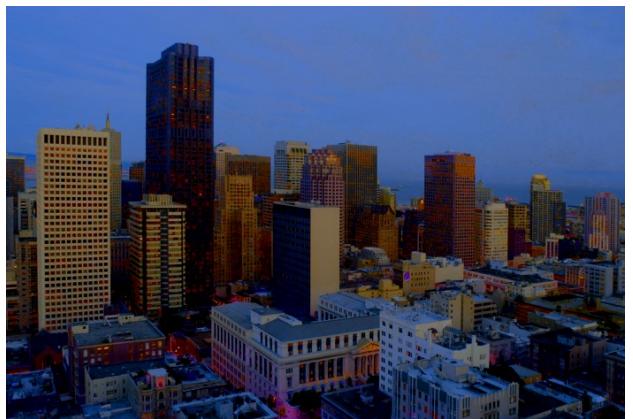
(c) LST [2]



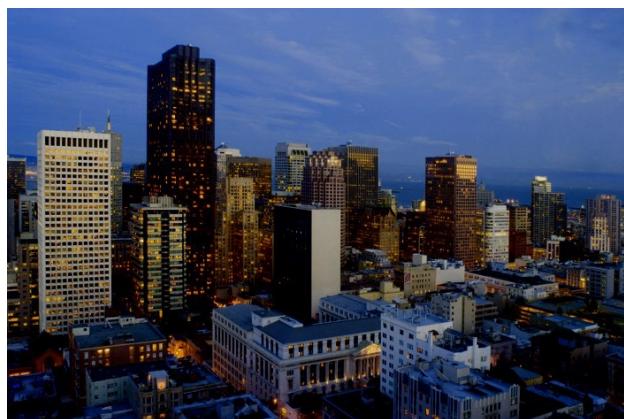
(d) Ours



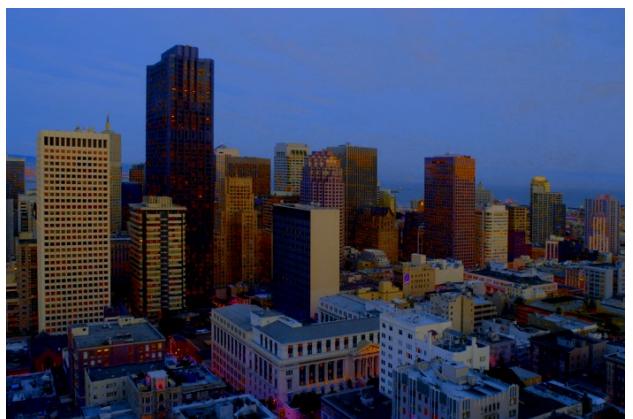
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 3: Visual comparison for input 3 in the first dataset.



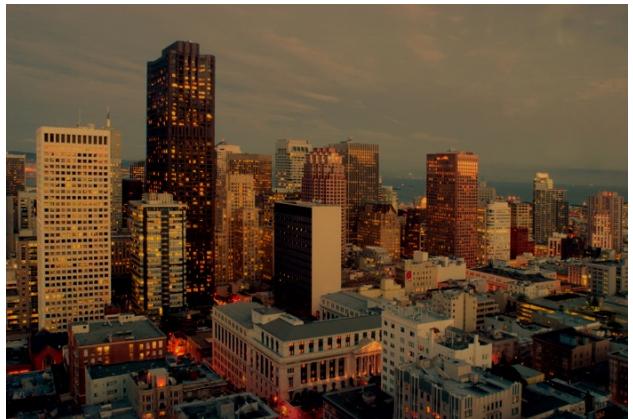
(a) Content



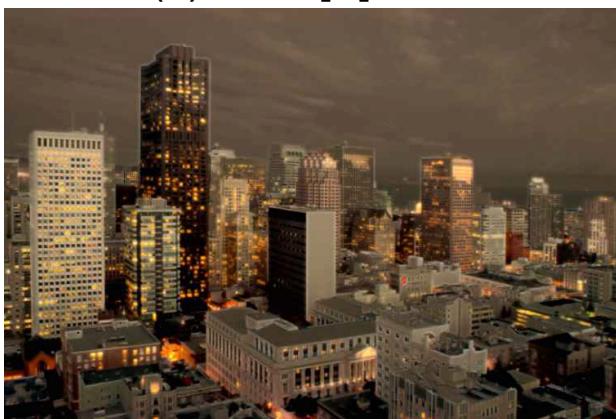
(b) Style



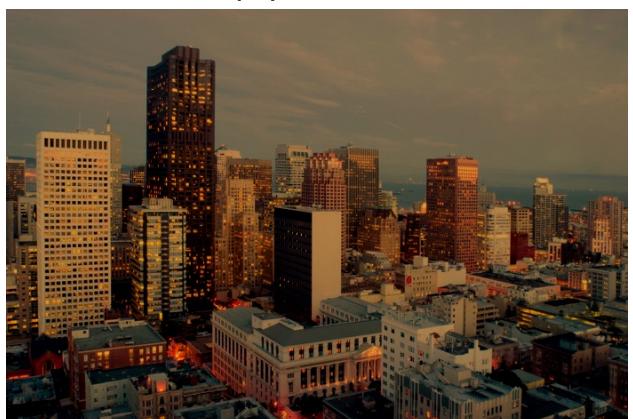
(c) LST [2]



(d) Ours



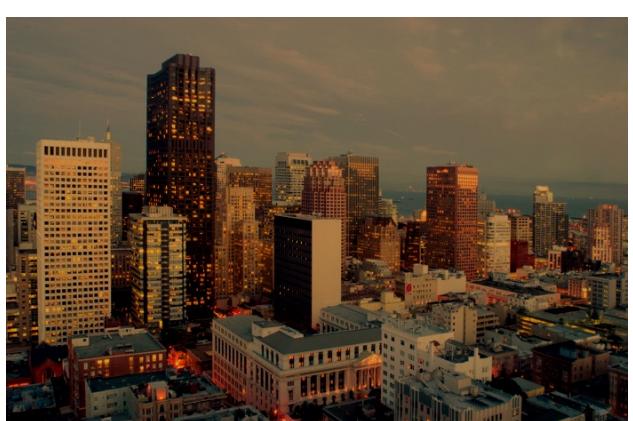
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 4: Visual comparison for input 4 in the first dataset.



(a) Content



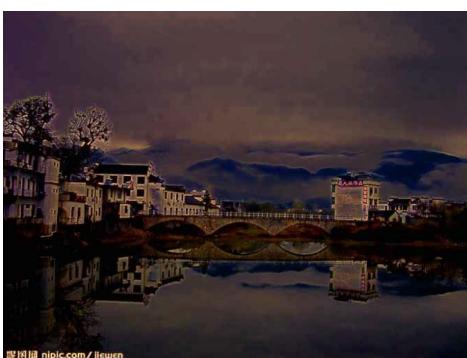
(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

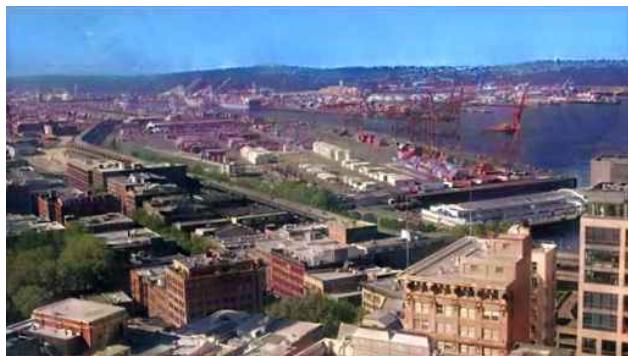
Figure 5: Visual comparison for input 5 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 6: Visual comparison for input 6 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 7: Visual comparison for input 7 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 8: Visual comparison for input 8 in the first dataset.



(a) Content



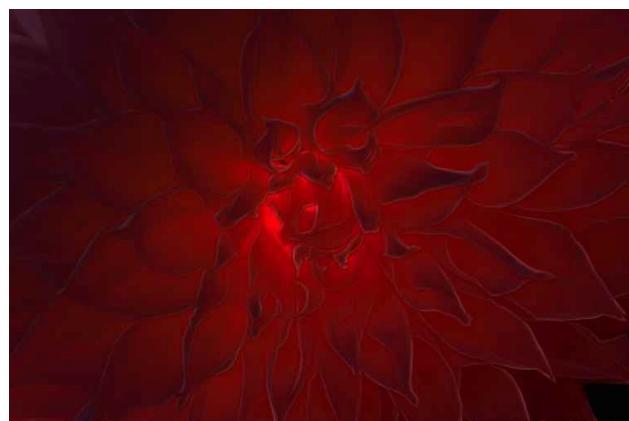
(b) Style



(c) LST [2]



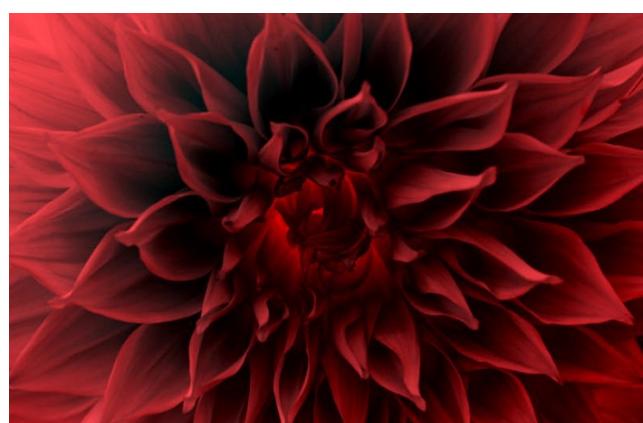
(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 9: Visual comparison for input 9 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]

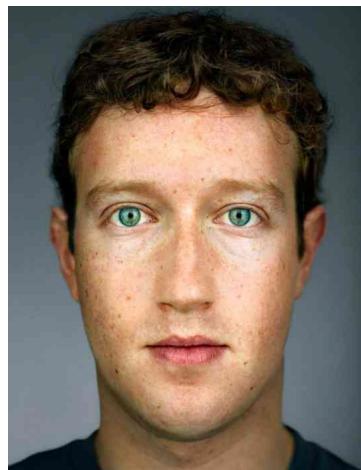


(h) Ours

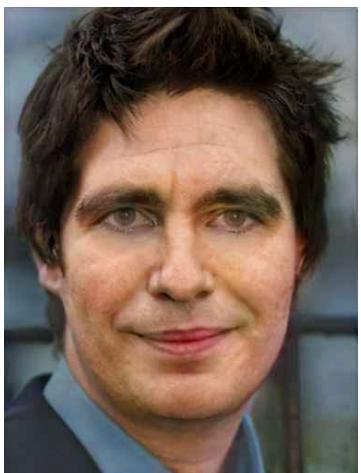
Figure 10: Visual comparison for input 10 in the first dataset.



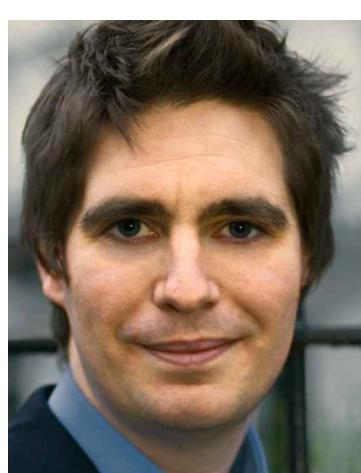
(a) Content



(b) Style



(c) LST [2]



(e) WCT² [3]



(g) NL-MAT [4]

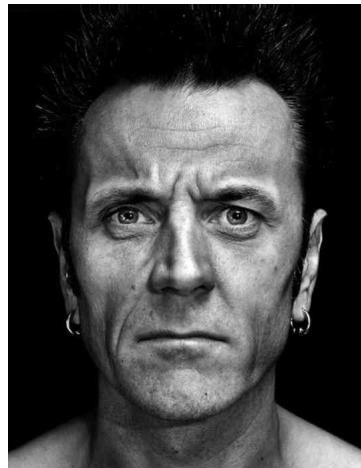


(h) ours

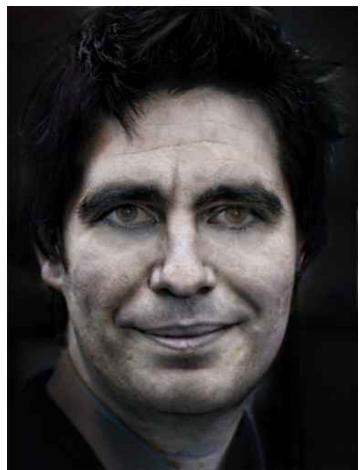
Figure 11: Visual comparison for input 11 in the first dataset.



(a) Content



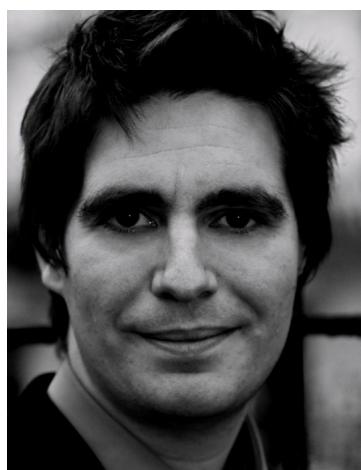
(b) Style



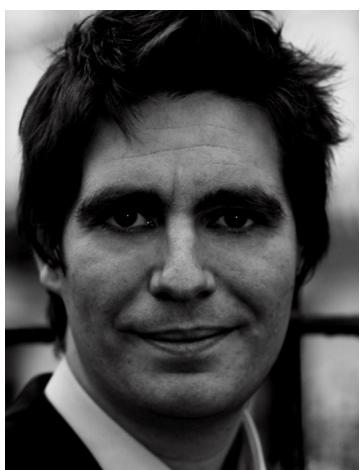
(c) LST [2]



(e) WCT² [3]



(g) NL-MAT [4]



(h) ours

Figure 12: Visual comparison for input 12 in the first dataset.



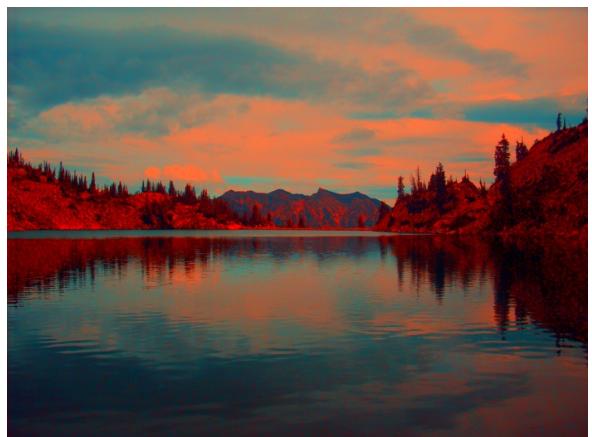
(a) Content



(b) Style



(c) LST [2]



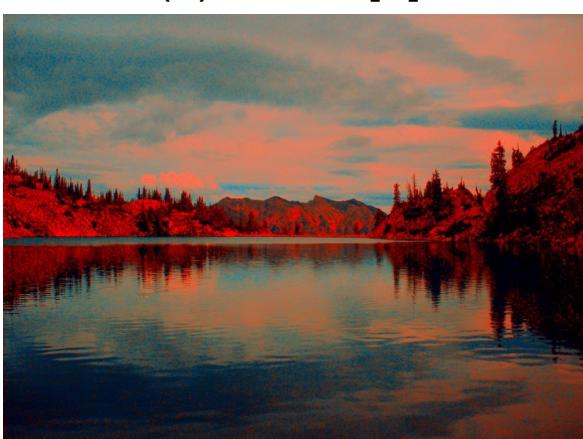
(d) Ours



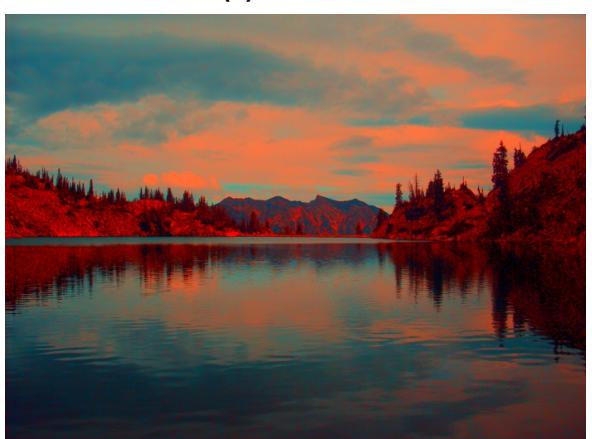
(e) WCT² [3]



(f) Ours

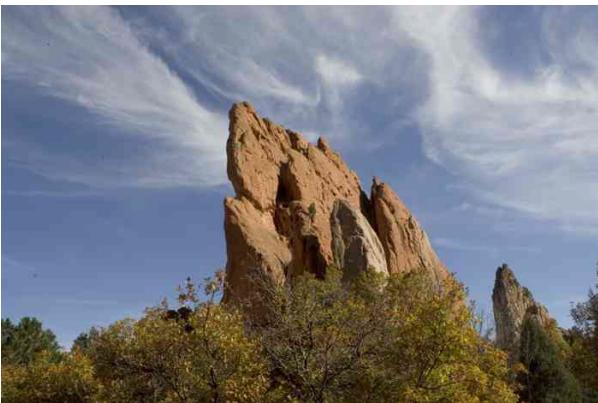


(g) NL-MAT [4]



(h) Ours

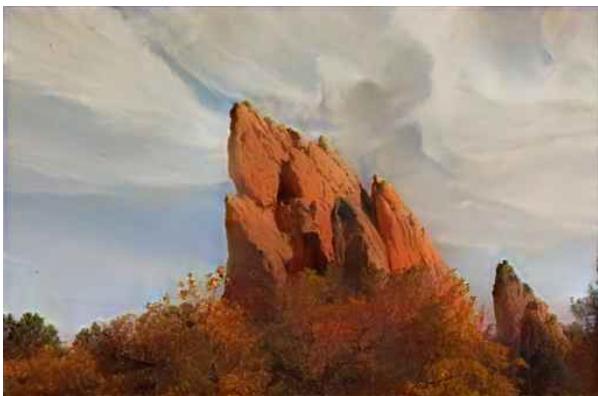
Figure 13: Visual comparison for input 13 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 14: Visual comparison for input 14 in the first dataset.



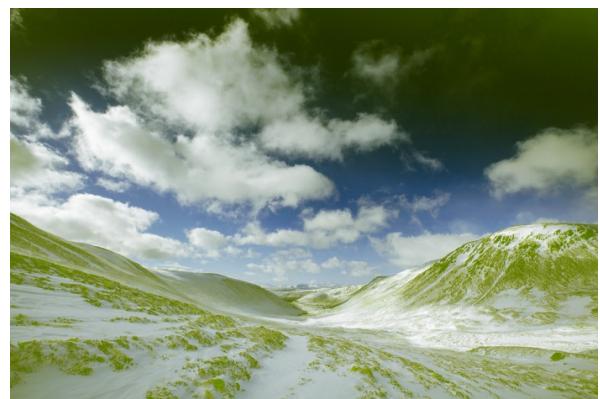
(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 15: Visual comparison for input 15 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 16: Visual comparison for input 16 in the first dataset.



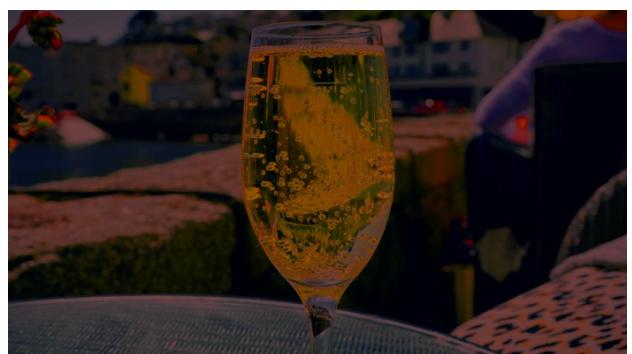
(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 17: Visual comparison for input 17 in the first dataset.



(a) Content



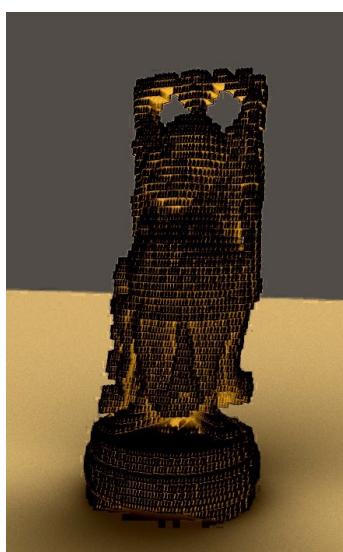
(b) Style



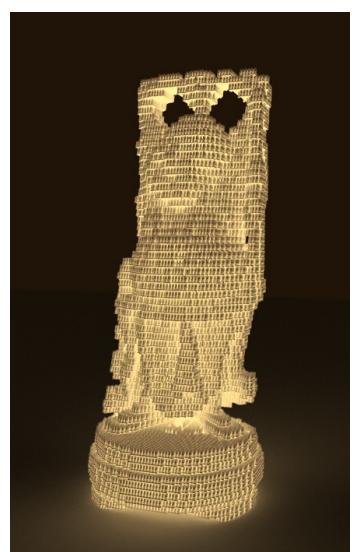
(c) LST [2]



(e) WCT² [3]



(g) NL-MAT [4]



(h) ours

Figure 18: Visual comparison for input 18 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 19: Visual comparison for input 19 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

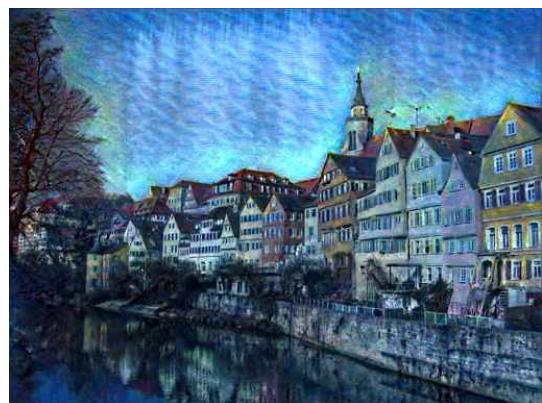
Figure 20: Visual comparison for input 20 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 21: Visual comparison for input 21 in the first dataset.



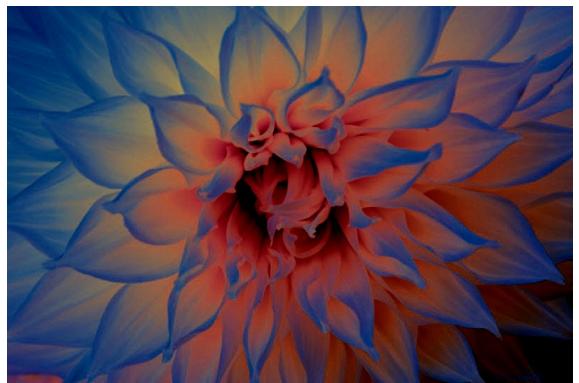
(a) Content



(b) Style



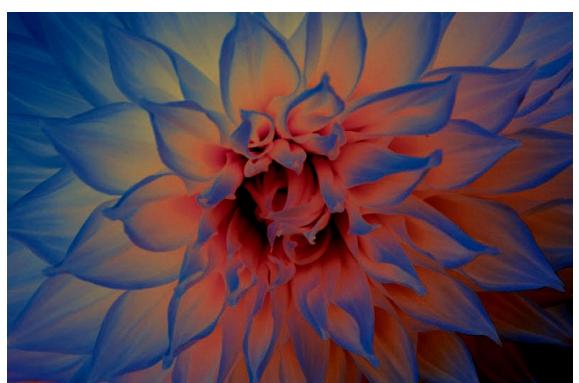
(c) LST [2]



(d) Ours



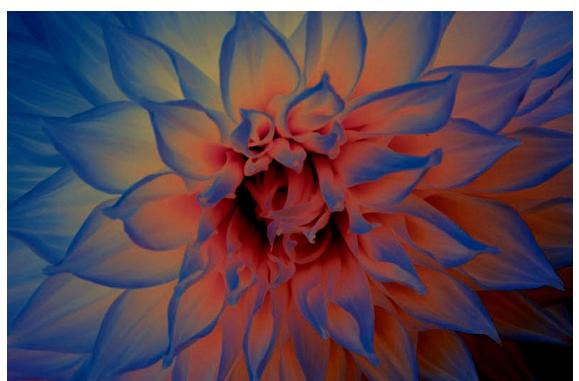
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 22: Visual comparison for input 22 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 24: Visual comparison for input 24 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 25: Visual comparison for input 25 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 26: Visual comparison for input 26 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 27: Visual comparison for input 27 in the first dataset.



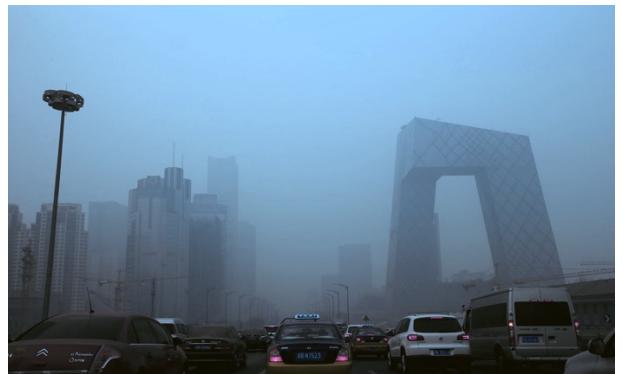
(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 28: Visual comparison for input 28 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours

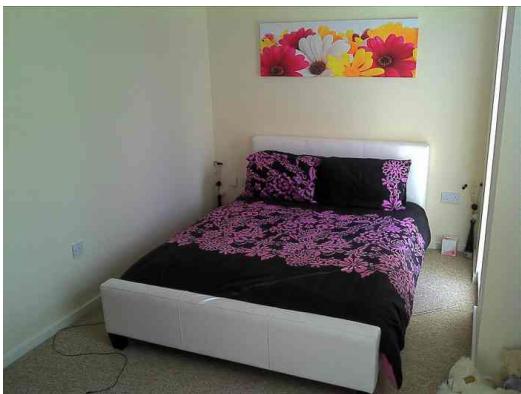


(g) NL-MAT [4]



(h) Ours

Figure 29: Visual comparison for input 29 in the first dataset.



(a) Content



(b) Style



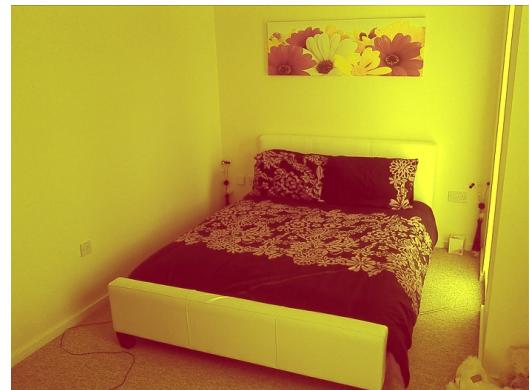
(c) LST [2]



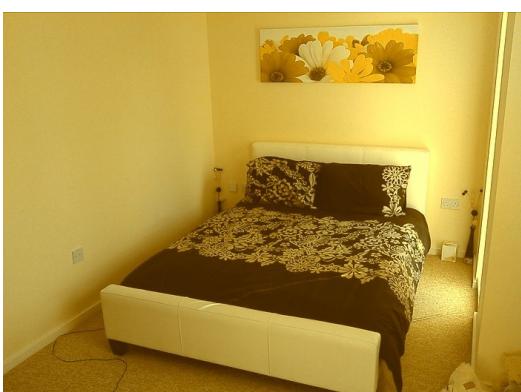
(d) Ours



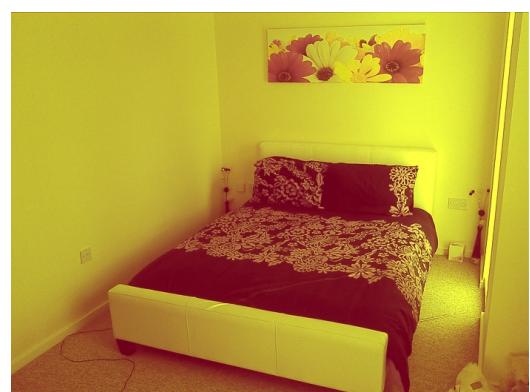
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 30: Visual comparison for input 30 in the first dataset.



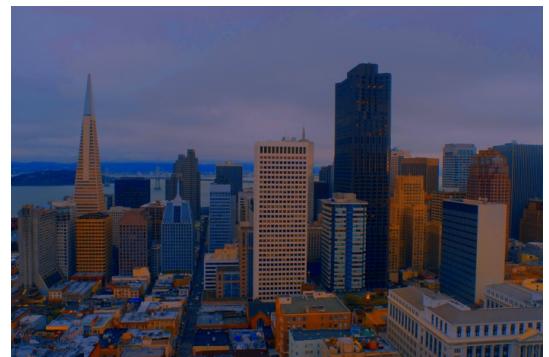
(a) Content



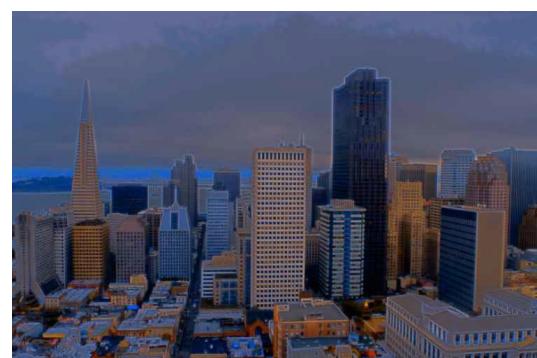
(b) Style



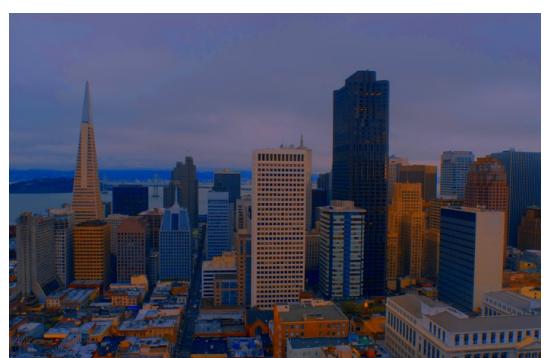
(c) LST [2]



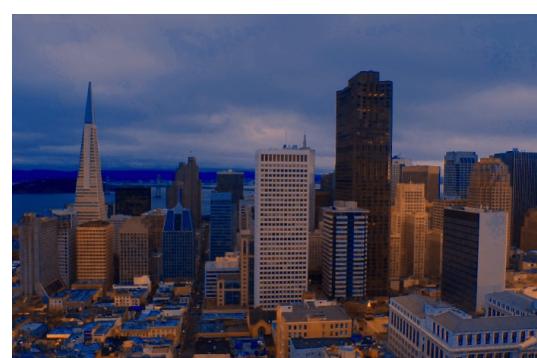
(d) Ours



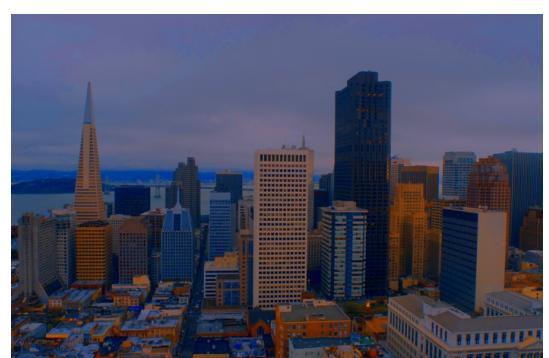
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 31: Visual comparison for input 31 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

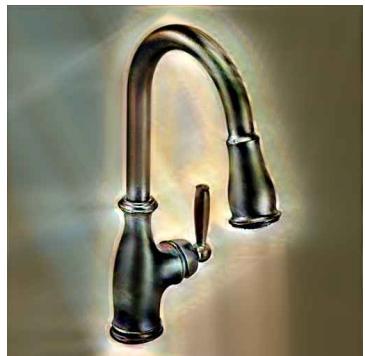
Figure 32: Visual comparison for input 32 in the first dataset.



(a) Content



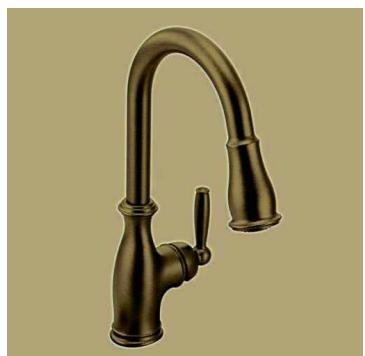
(b) Style



(c) LST [2]



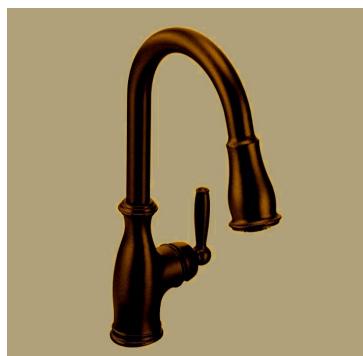
(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 33: Visual comparison for input 33 in the first dataset.



(a) Content



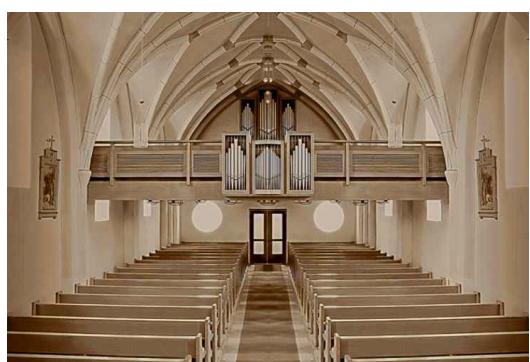
(b) Style



(c) LST [2]



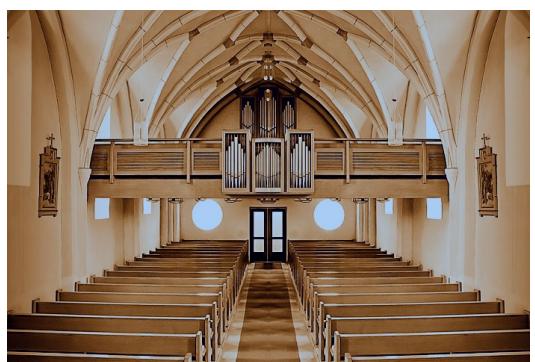
(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 34: Visual comparison for input 34 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 35: Visual comparison for input 35 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]

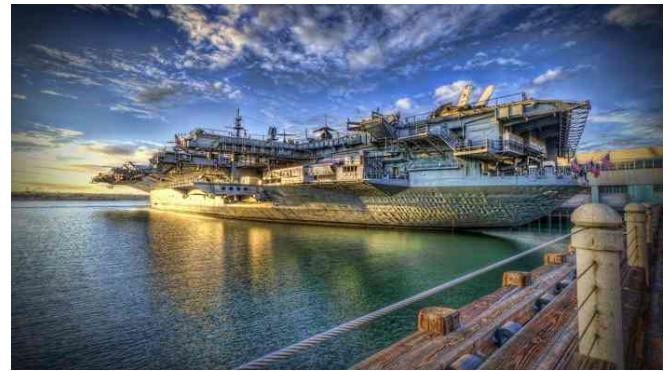


(h) Ours

Figure 36: Visual comparison for input 36 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 37: Visual comparison for input 37 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 38: Visual comparison for input 38 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



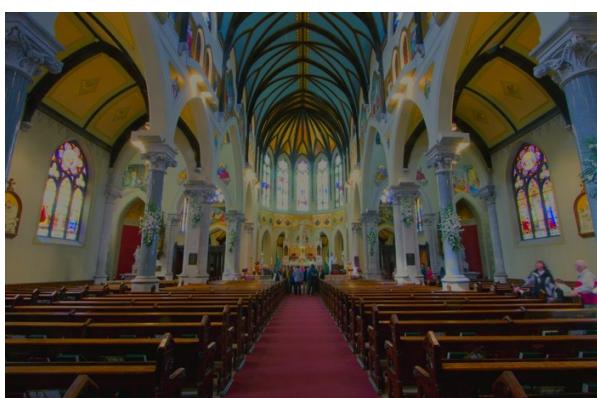
(d) Ours



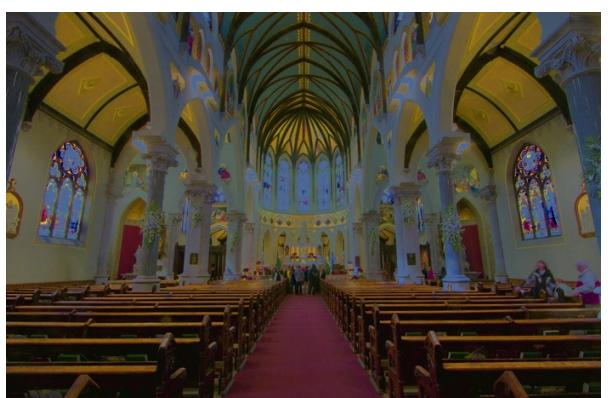
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 39: Visual comparison for input 39 in the first dataset.



(a) Content



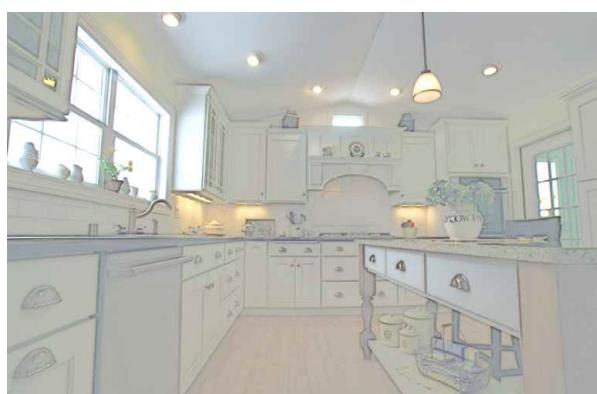
(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 40: Visual comparison for input 40 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 41: Visual comparison for input 41 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 42: Visual comparison for input 42 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 43: Visual comparison for input 43 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 44: Visual comparison for input 44 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 45: Visual comparison for input 45 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 46: Visual comparison for input 46 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 47: Visual comparison for input 47 in the first dataset.



(a) Content



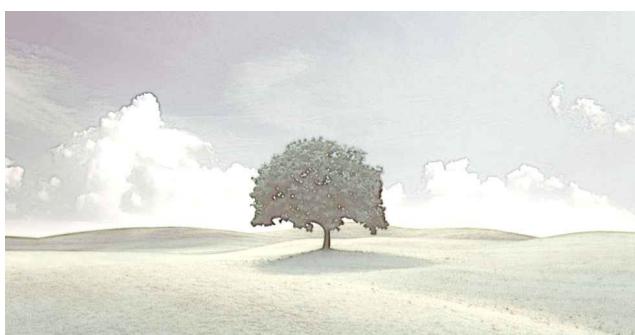
(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 48: Visual comparison for input 48 in the first dataset.



(a) Content



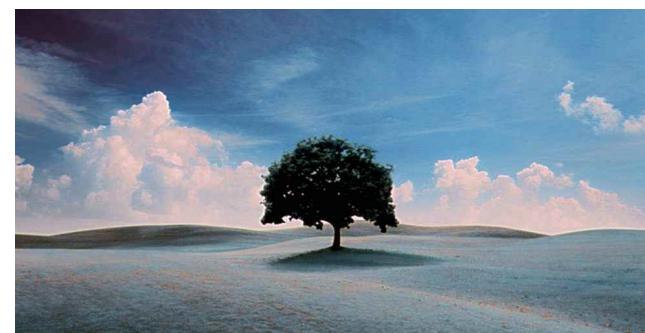
(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 49: Visual comparison for input 49 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

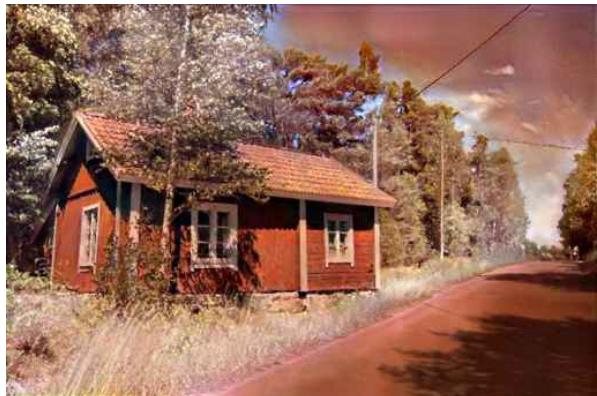
Figure 50: Visual comparison for input 50 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 51: Visual comparison for input 51 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 52: Visual comparison for input 52 in the first dataset.



(a) Content



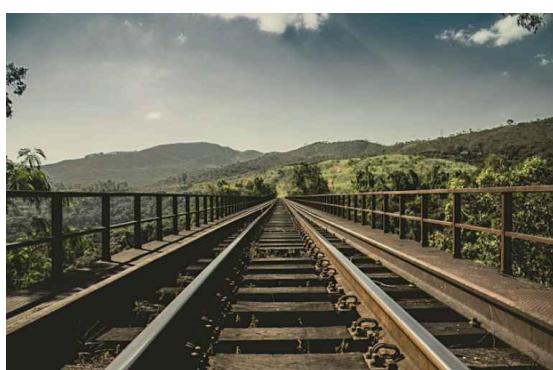
(b) Style



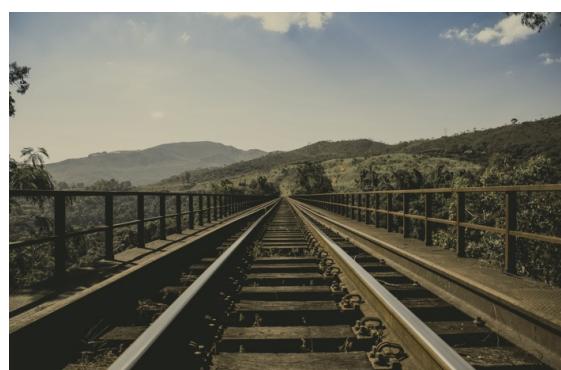
(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 53: Visual comparison for input 53 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



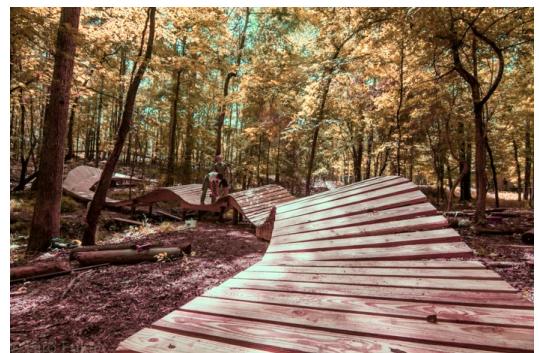
(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 54: Visual comparison for input 54 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 55: Visual comparison for input 55 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 56: Visual comparison for input 56 in the first dataset.



(a) Content



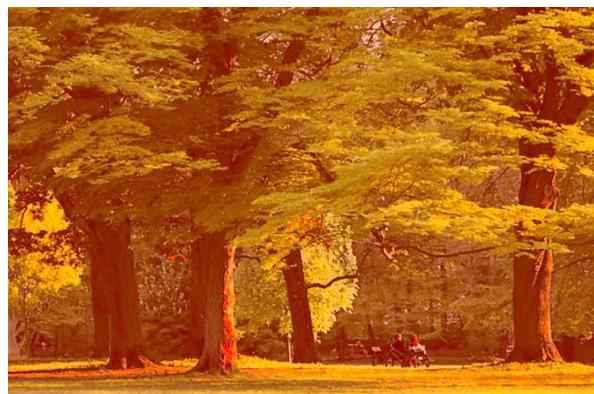
(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 57: Visual comparison for input 57 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 58: Visual comparison for input 58 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 59: Visual comparison for input 59 in the first dataset.



(a) Content



(b) Style



(c) LST [2]



(d) Ours



(e) WCT² [3]



(f) Ours



(g) NL-MAT [4]



(h) Ours

Figure 60: Visual comparison for input 60 in the first dataset.

2. Stylized results for the second dataset [5]



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 61: Visual comparison for input 1 in the second dataset.



(a) Content



(b) Style



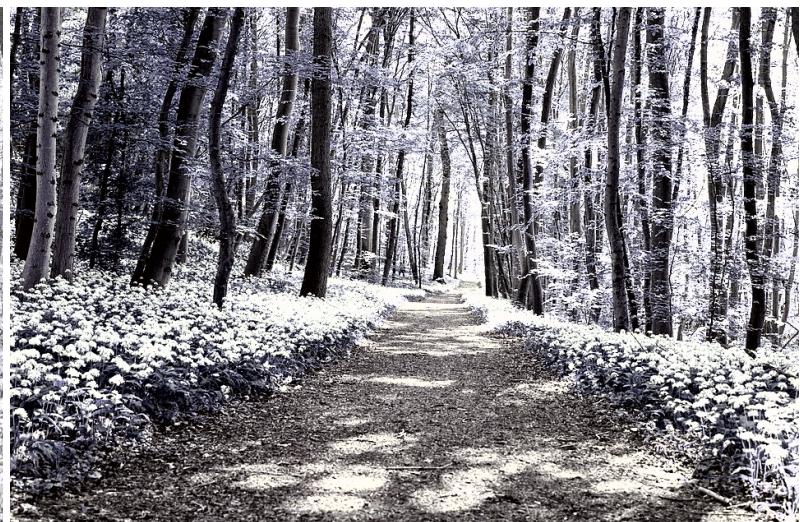
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 62: Visual comparison for input 2 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 63: Visual comparison for input 3 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 64: Visual comparison for input 4 in the second dataset.



(a) Content



(b) Style



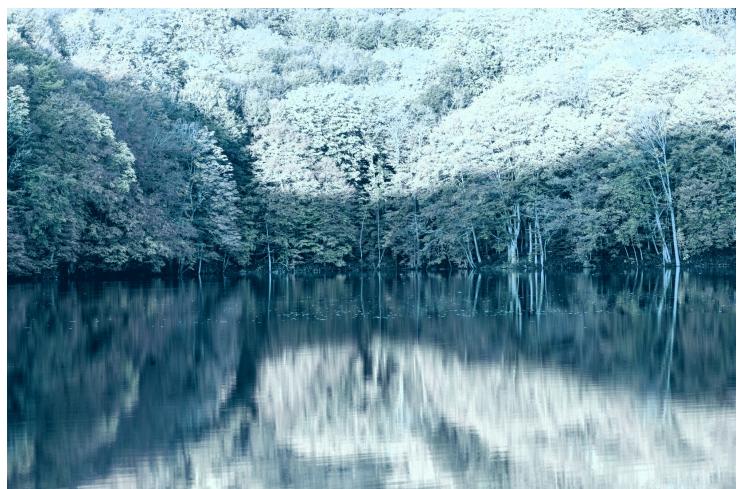
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 65: Visual comparison for input 5 in the second dataset.



(a) Content



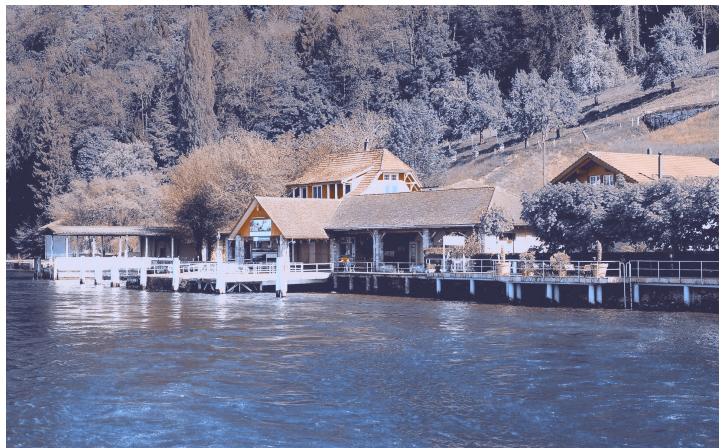
(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 66: Visual comparison for input 6 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours

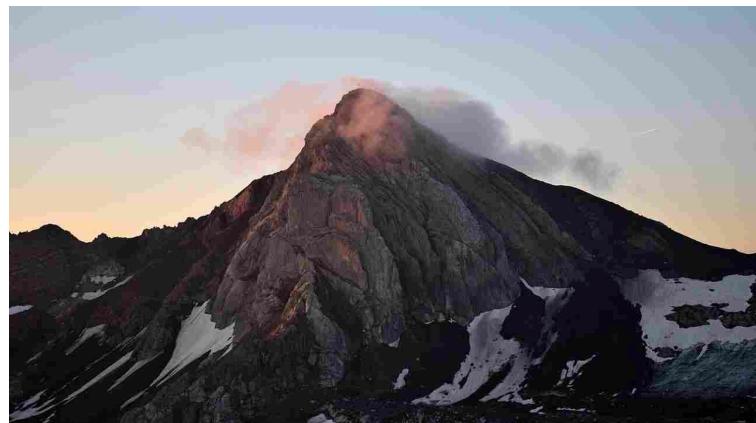


(e) NL-MAT [4]

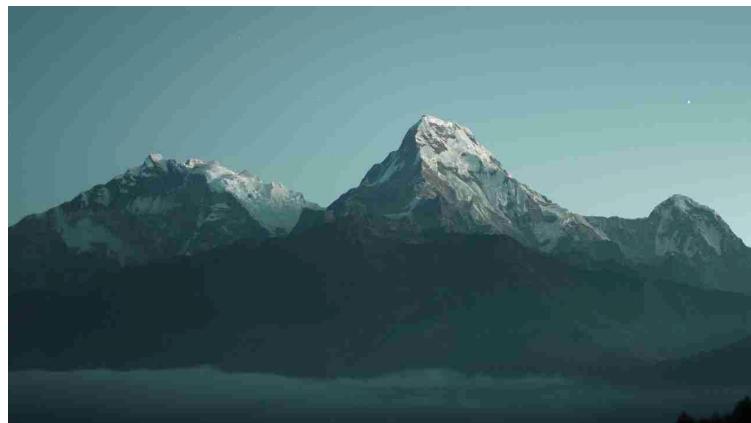


(f) ours

Figure 67: Visual comparison for input 7 in the second dataset.



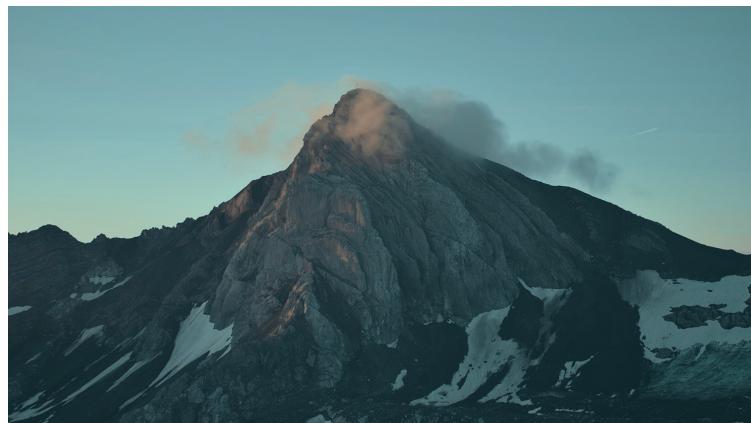
(a) Content



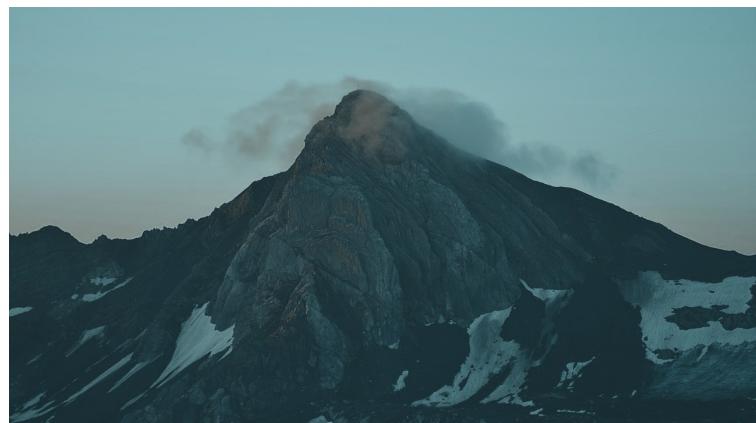
(b) Style



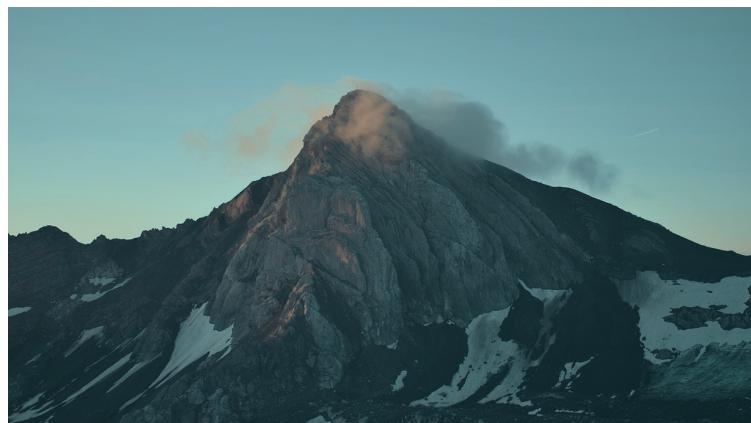
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

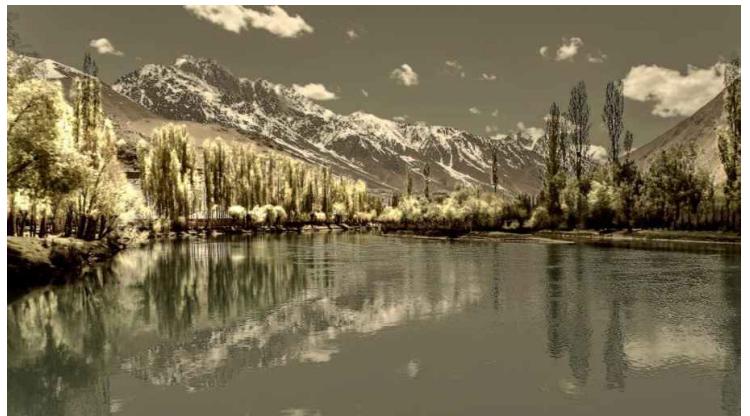
Figure 68: Visual comparison for input 8 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 69: Visual comparison for input 9 in the second dataset.



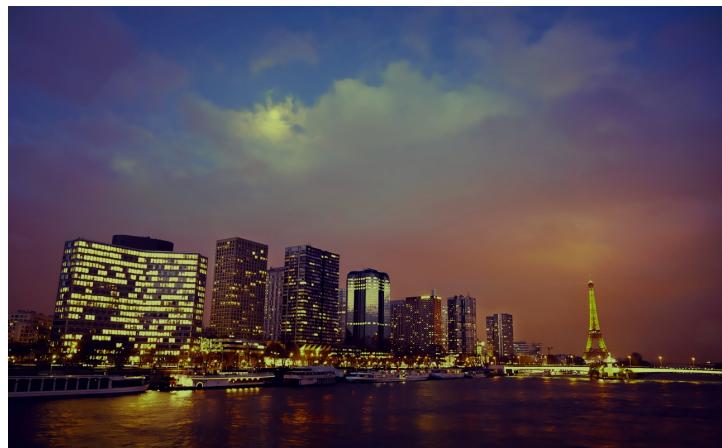
(a) Content



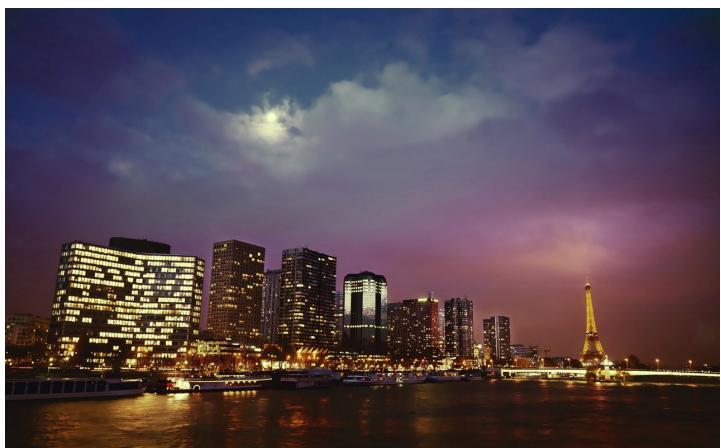
(b) Style



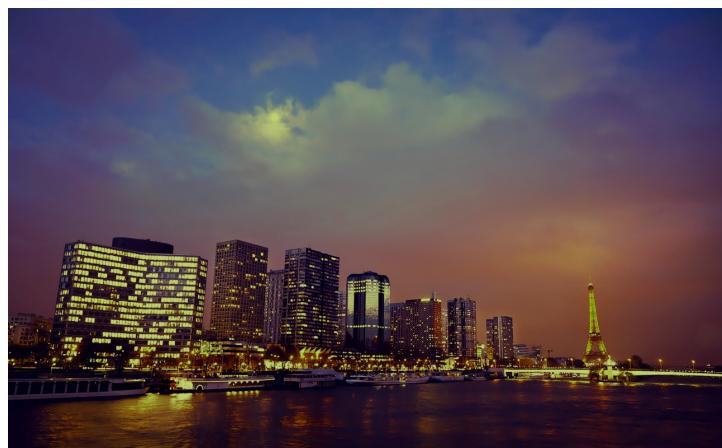
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 70: Visual comparison for input 10 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 71: Visual comparison for input 11 in the second dataset.



(a) Content



(b) Style



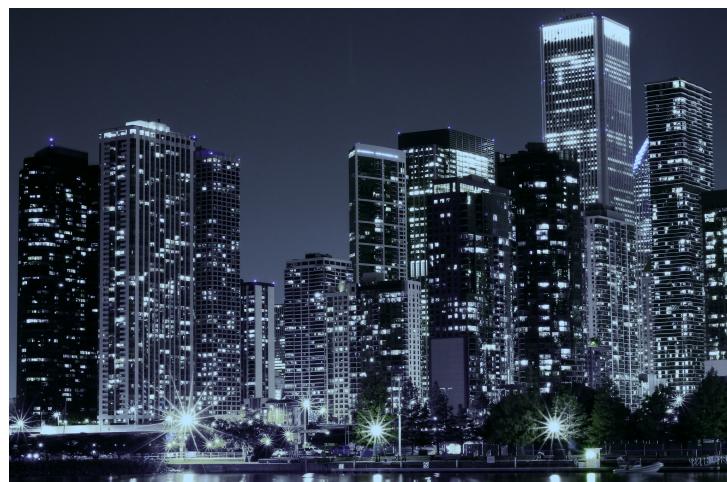
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 72: Visual comparison for input 12 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours

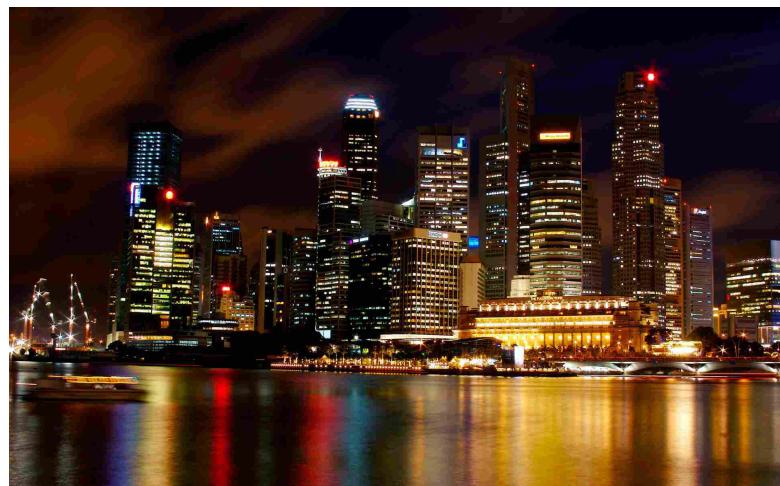


(e) NL-MAT [4]



(f) ours

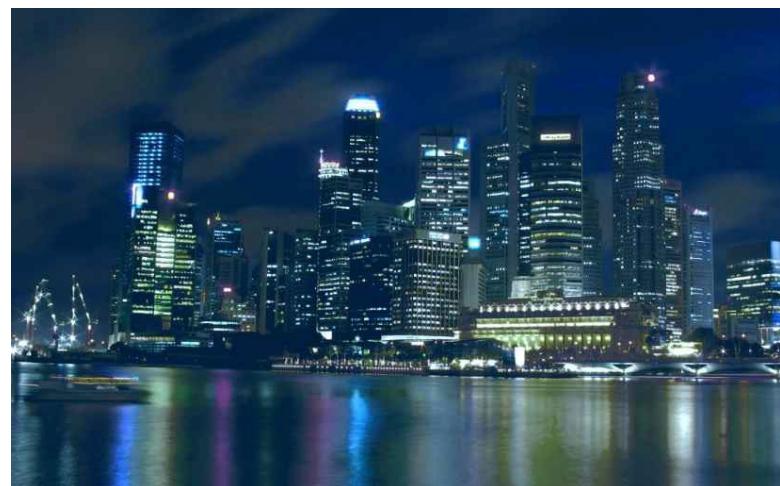
Figure 73: Visual comparison for input 13 in the second dataset.



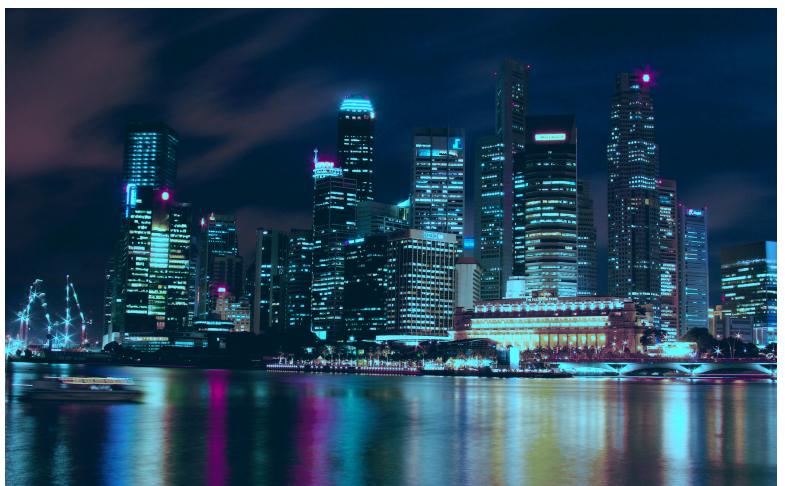
(a) Content



(b) Style



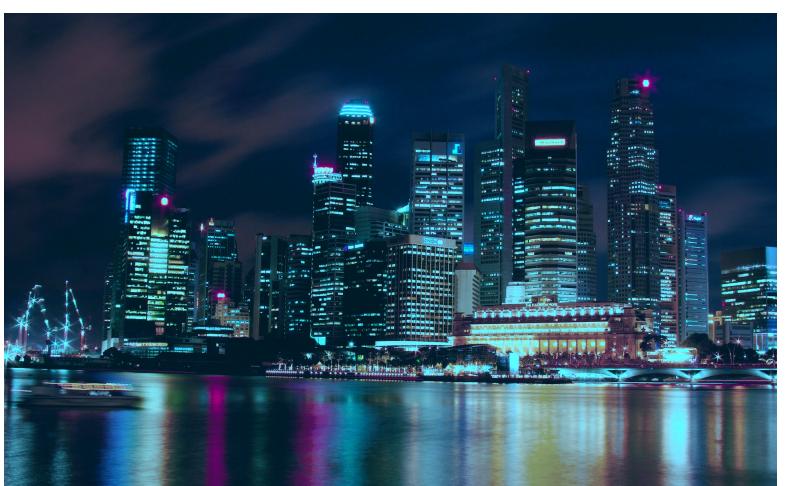
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]

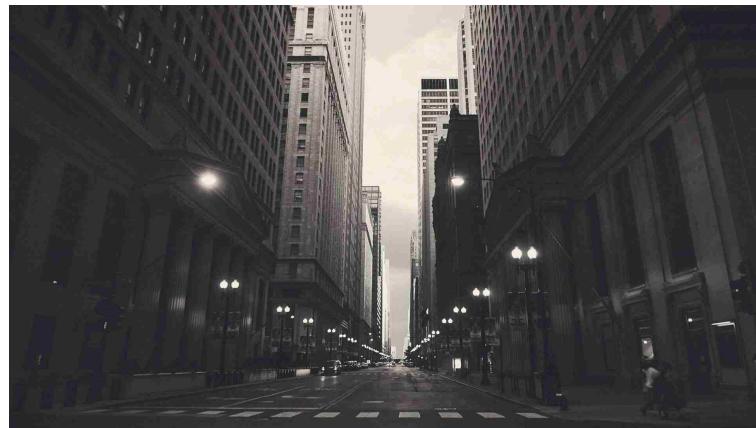


(f) ours

Figure 74: Visual comparison for input 14 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 75: Visual comparison for input 15 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 76: Visual comparison for input 16 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours

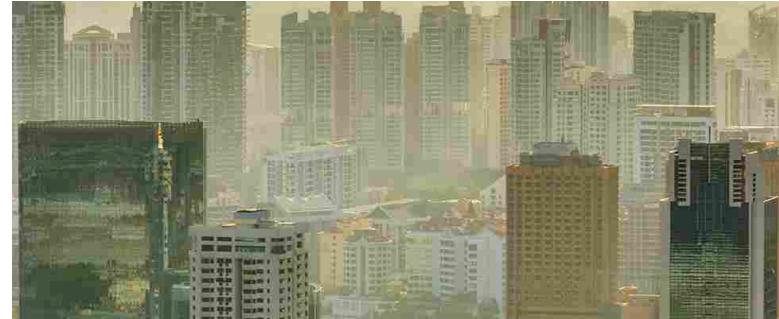


(e) NL-MAT [4]



(f) ours

Figure 77: Visual comparison for input 17 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 78: Visual comparison for input 18 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 79: Visual comparison for input 19 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 80: Visual comparison for input 20 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 81: Visual comparison for input 21 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 82: Visual comparison for input 22 in the second dataset.



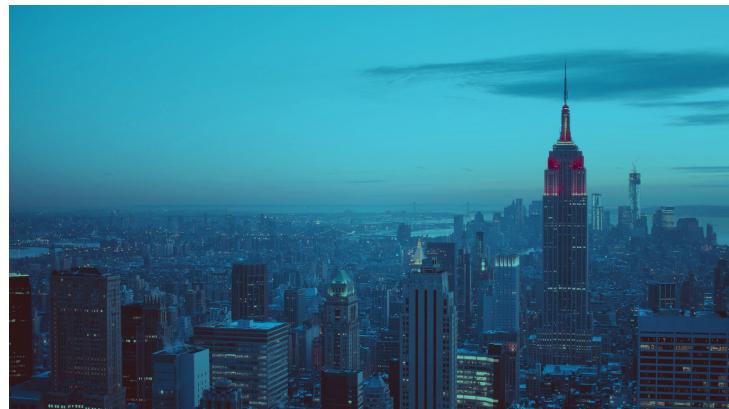
(a) Content



(b) Style



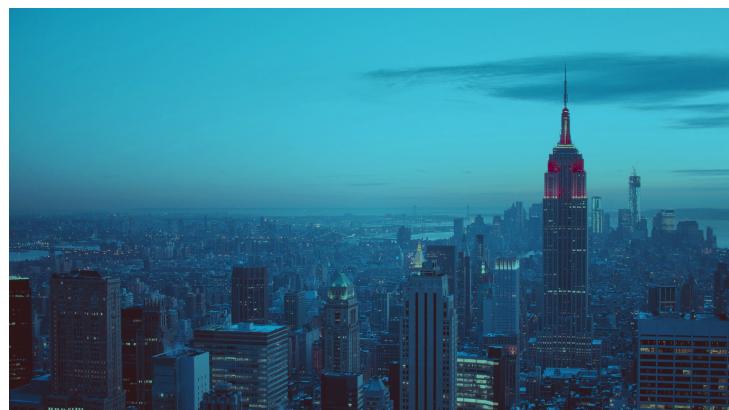
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 83: Visual comparison for input 23 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 84: Visual comparison for input 24 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 85: Visual comparison for input 25 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 86: Visual comparison for input 26 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 87: Visual comparison for input 27 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 88: Visual comparison for input 28 in the second dataset.



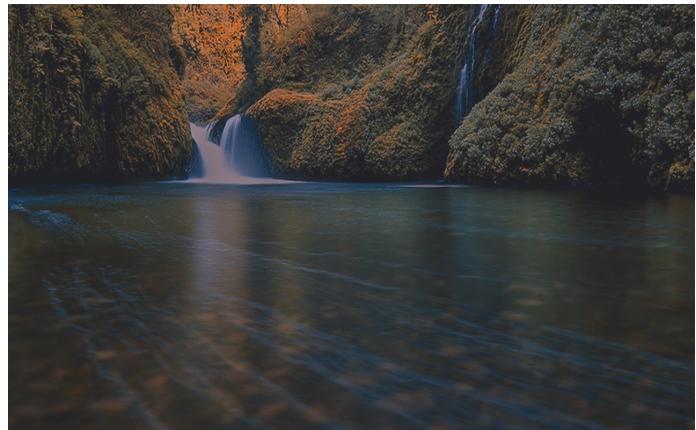
(a) Content



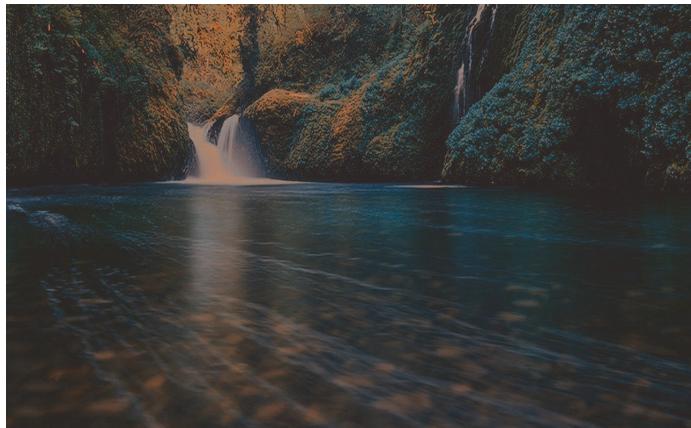
(b) Style



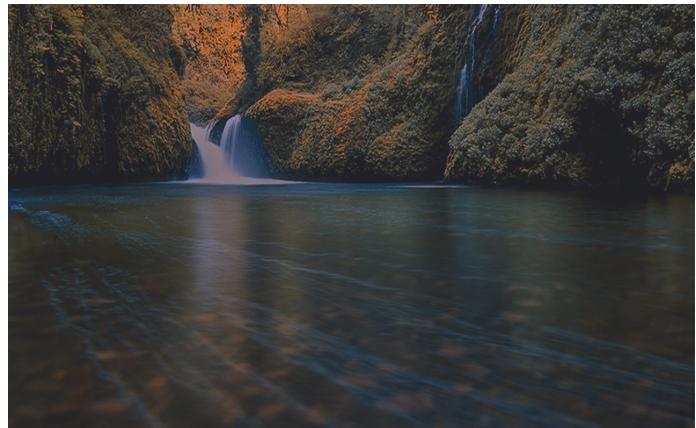
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 89: Visual comparison for input 29 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 90: Visual comparison for input 30 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 91: Visual comparison for input 31 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 92: Visual comparison for input 32 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 93: Visual comparison for input 33 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 94: Visual comparison for input 34 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 95: Visual comparison for input 35 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 96: Visual comparison for input 36 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 97: Visual comparison for input 37 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours

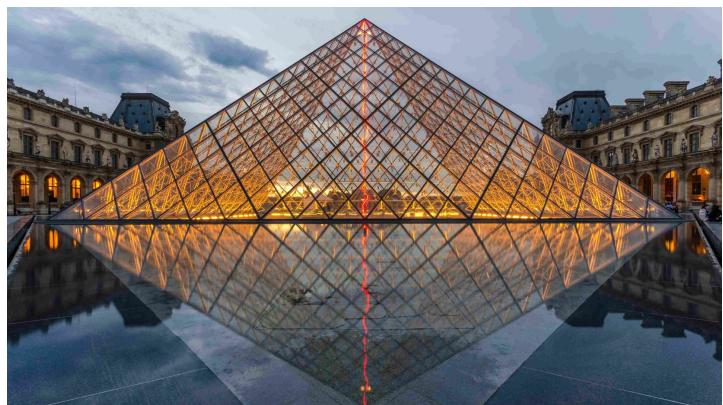


(e) NL-MAT [4]

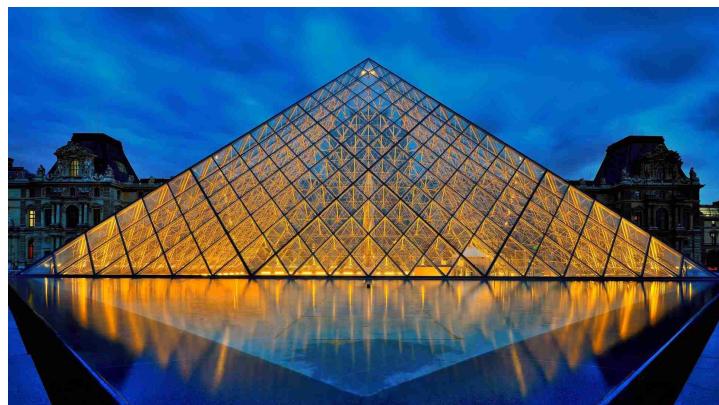


(f) ours

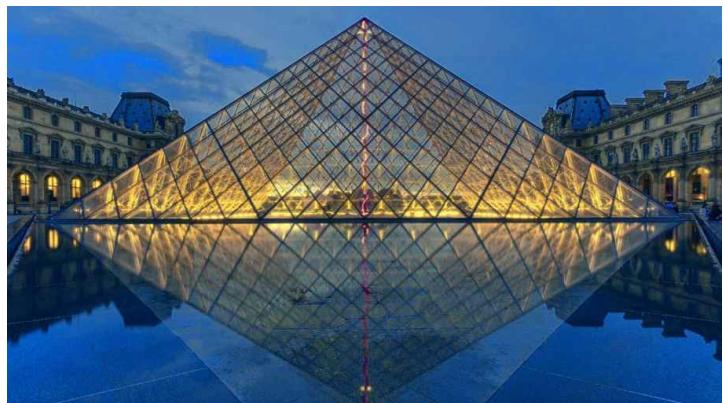
Figure 98: Visual comparison for input 38 in the second dataset.



(a) Content



(b) Style



(c) PhotoNAS [5]



(d) ours

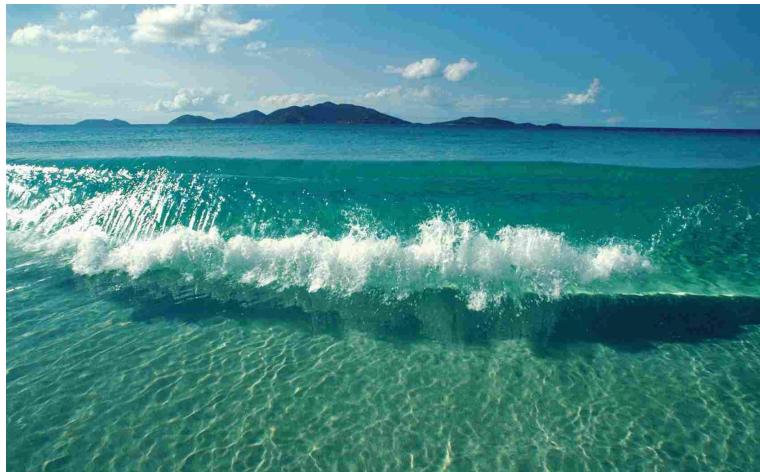


(e) NL-MAT [4]



(f) ours

Figure 99: Visual comparison for input 39 in the second dataset.



(a) Content



(b) Style



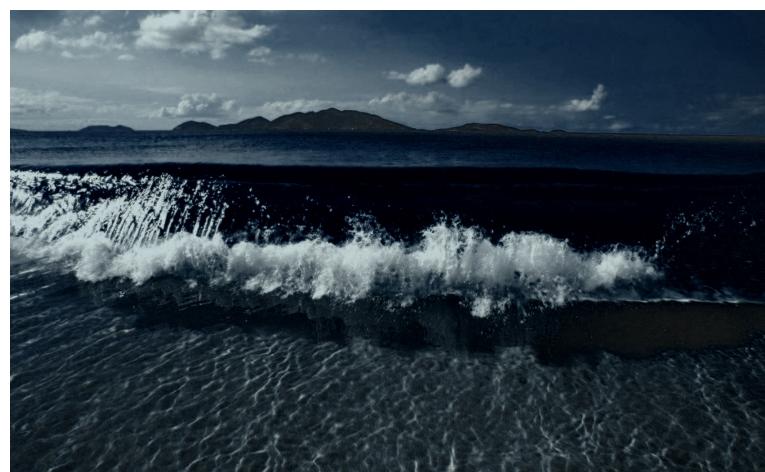
(c) PhotoNAS [5]



(d) ours



(e) NL-MAT [4]



(f) ours

Figure 100: Visual comparison for input 40 in the second dataset.

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