

(a). Visual examples of the proposed DF40 dataset.

Known Domain
Unknown Domain

Face Swap (FS).

Total number of FS: 10



Face Reenact (FR)

Total number of FR: 13



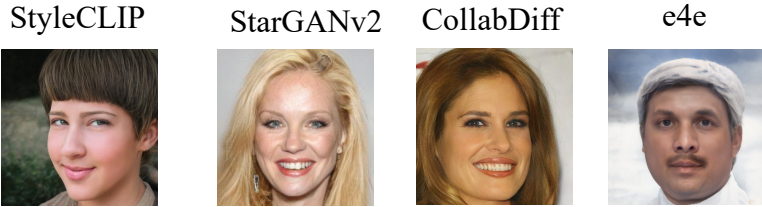
Entire Face Synthesis (EFS)

Total number of EFS: 12



Face Editing (FE)

Total number of FE: 5



Remaining open-set Synthesis deepfakes

Total number: 4



Statistic Details of DF40:

Known Domains:

- 1. Num of FS: 9
- 2. Num of FR: 12
- 3. Num of EFS: 10

Total Num: 31

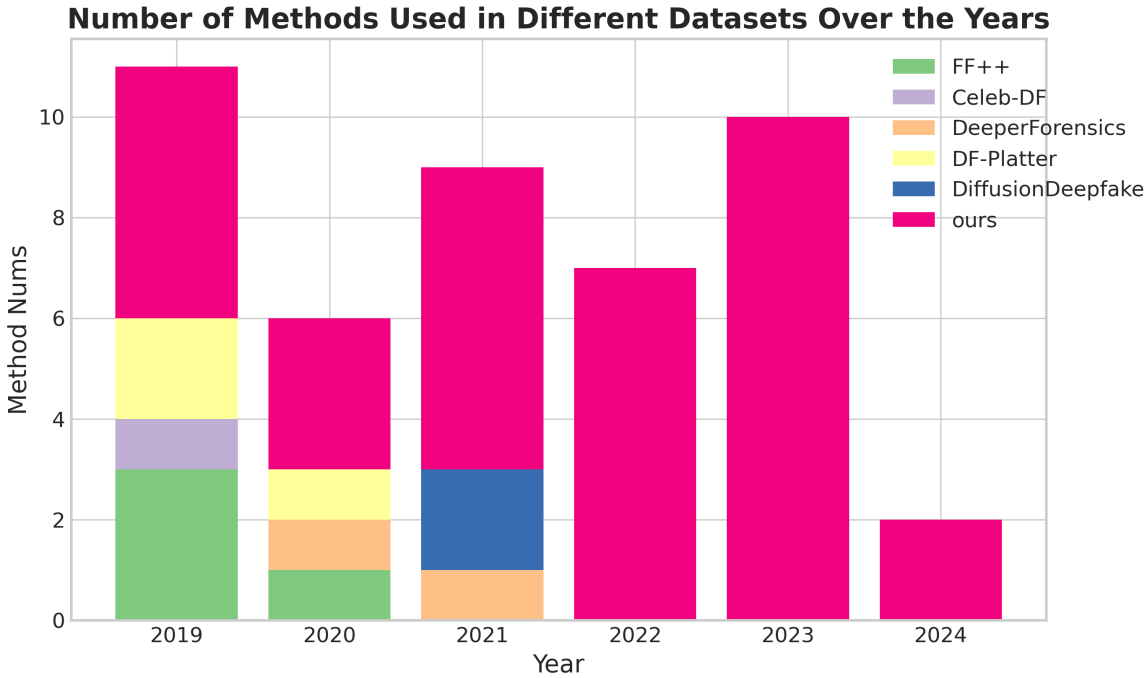
Unknown Domains:

- 1. Num of FS: 1;
- 2. Num of FR: 1;
- 3. Num of EFS: 2;
- 4. Num of FE: 5

Total Num: 9

Note: Known domains refer to real data from FF++ and CDF, while unknown domains are those from other real datasets

(b). Statistic comparison of forgery number used in different datasets



(c). Comparison with other dataset in diversity and scale.

