

Fig. 2: Overview of our SymmFCNet. Red, green and blue lines in (a) represent the three types of pixel-wise correspondence between the input and the flip image. Red: missing pixels (input) to non-occluded pixels (flip); Green: missing pixels (input) to missing pixels (flip); Blue: remaining pixels (input) to remaining pixels (flip). In Stage I, the missing pixels in one-half face (red lines) are filled by reweighting the illumination of their symmetrical pixels in the other half-face. In Stage II, the missing pixels in both-half faces (green lines in (a)) are filled by the generative reconstruction subnet with the incorporation of perceptual symmetry loss for symmetry-consistent completion.