

# “BASAR:Black-box Attack on Skeletal Action Recognition” errata

1. In the first paragraph of Section 4.1, the sentence ‘we process HDM05 following[15] and train the target models strictly following the protocols in the papers, achieving 87.2%, 94.4%, 99.1% on STGCN, MS-G3D and SGN respectively’ should be revised to ‘we process HDM05 following[15] and train the target models strictly following the protocols in the papers, achieving 87.2%, 94.4%, 94.1% on STGCN, MS-G3D and SGN respectively’. This is only the clerical error of the recognition accuracy of the trained SGN model, not affecting attack performance.
2. In section 3.4, the equation (5) and (6) should be:

$$\begin{aligned}
 & \min_{\mathbf{x}'} L(\tilde{\mathbf{x}}, \mathbf{x}') + wL(\ddot{\mathbf{x}}, \ddot{\mathbf{x}}') \\
 & \text{subject to } B'_i = B_i \text{ and } \theta_i^{\min} \leq \theta'_i \leq \theta_i^{\max} \\
 & C_{\mathbf{x}'} = c \text{ (targeted) or } C_{\mathbf{x}'} \neq C_{\mathbf{x}} \text{ (untargeted)}. \tag{5}
 \end{aligned}$$

$$\begin{aligned}
 & \min_{\theta'} L(\tilde{\theta}, \theta') + wL(\ddot{\theta}, \ddot{\theta}') \\
 & \text{subject to } \theta_i^{\min} \leq \theta'_i \leq \theta_i^{\max}, \\
 & C_{\mathbf{x}'} = c \text{ (targeted) or } C_{\mathbf{x}'} \neq C_{\mathbf{x}} \text{ (untargeted)}. \tag{6}
 \end{aligned}$$

where  $\tilde{\mathbf{x}}$  is the perturbed motion often off the manifold, obtained after conducting aimed probing and random exploration.  $\tilde{\theta}$  is its corresponding joint angles.