Errata

Erratum to “Adaptive Smoothing via Contextual and Local Discontinuities”

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The author of the paper “Adaptive Smoothing via Contextual and Local Discontinuities,” which appeared in the IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 27, no. 10, pp. 1552-1567, Oct. 2005, would like to point out that equation (9) on page 1555 in [1] should have been read as follows:

\[
D_{x,y}^+ = \sum_{(i,j) \in N_{x,y}(i,j)} \left[ 1 - \exp \left( -\frac{(d_{x,y,w,v})^2}{2\sigma_v^2} \right) \right] \exp \left( -\frac{d_{x,y,w,v}^2}{2\sigma_w^2} \right),
\]

(9a)

\[
D_{x,y}^- = \sum_{(i,j) \in N_{x,y}(i,j)} \left[ 1 - \exp \left( -\frac{(d_{x,y,w,v})^2}{2\sigma_v^2} \right) \right] \exp \left( -\frac{d_{x,y,w,v}^2}{2\sigma_w^2} \right),
\]

(9b)

where

\[
d_{x,y,w,v} = (x - v)^2 + (y - w)^2,
\]

\[
d_{x,y,w,v}^+ = \begin{cases} I_{(v,w)} - I_{(v',w')} & \text{if } I_{(v,w)} - I_{(v',w')} > 0, \\ 0, & \text{otherwise.} \end{cases}
\]

\[
d_{x,y,w,v}^- = \begin{cases} I_{(v,w)} - I_{(v',w')} & \text{if } I_{(v,w)} - I_{(v',w')} < 0, \\ 0, & \text{otherwise.} \end{cases}
\]

The author is grateful to X. Hu for finding the typo by comparing the author’s source code with the algorithm description in [1].

REFERENCES