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:

\[
D^+_{x,y} = \sum_{(v,w) \in N_{xy}(i,j), (v',w') \in N_{xy}(i,j)} \left[ 1 - \exp\left( -\frac{(d^+_{vw,v'w'})^2}{2\sigma^2_v}\right) \right] \exp\left( -\frac{d^2_{x,y}}{2R^2_{xy}}\right),
\]

(9a)

\[
D^-_{x,y} = \sum_{(v,w) \in N_{xy}(i,j), (v',w') \in N_{xy}(i,j)} \left[ 1 - \exp\left( -\frac{(d^-_{vw,v'w'})^2}{2\sigma^2_v}\right) \right] \exp\left( -\frac{d^2_{x,y}}{2R^2_{xy}}\right),
\]

(9b)

where

\[
d^2_{vw,v'w'} = (x - v)^2 + (y - w)^2,
\]

\[
d^+_{vw,v'w'} = \begin{cases} I(v,w) - I(v',w'), & \text{if } I(v,w) - I(v',w') > 0, \\ 0, & \text{otherwise.} \end{cases}
\]

\[
d^-_{vw,v'w'} = \begin{cases} I(v,w) - I(v',w'), & \text{if } I(v,w) - I(v',w') < 0, \\ 0, & \text{otherwise.} \end{cases}
\]

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