

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:

$$D_{xy;ij}^+ = \sum_{\substack{(v,w) \in \mathcal{N}_{xy;ij}(x,y) \\ (v',w') \in \mathcal{N}_{xy;ij}(i,j) \\ s.t. x-v=i, y-w=j-w'}} \left[1 - \exp\left(-\frac{(d_{vw;v'w'}^+)^2}{2\sigma_u^2}\right) \right] \exp\left(-\frac{d_{xy;vw}^2}{2R_{xy;ij}^2}\right), \quad (9a)$$

$$D_{xy;ij}^- = \sum_{\substack{(v,w) \in \mathcal{N}_{xy;ij}(x,y) \\ (v',w') \in \mathcal{N}_{xy;ij}(i,j) \\ s.t. x-v=i, y-w=j-w'}} \left[1 - \exp\left(-\frac{(d_{vw;v'w'}^-)^2}{2\sigma_u^2}\right) \right] \exp\left(-\frac{d_{xy;vw}^2}{2R_{xy;ij}^2}\right), \quad (9b)$$

where

$$\begin{aligned} d_{xy;vw}^2 &= (x-v)^2 + (y-w)^2, \\ d_{vw;v'w'}^+ &= \begin{cases} I_{(v,w)} - I_{(v',w')}, & \text{if } I_{(v,w)} - I_{(v',w')} > 0, \\ 0, & \text{otherwise.} \end{cases} \\ d_{vw;v'w'}^- &= \begin{cases} I_{(v,w)} - I_{(v',w')}, & \text{if } I_{(v,w)} - I_{(v',w')} < 0, \\ 0, & \text{otherwise.} \end{cases} \end{aligned}$$

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

- [1] K. Chen, “Adaptive Smoothing via Contextual and Local Discontinuities,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 27, no. 10, pp. 1552-1567, Oct. 2005.

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