Errata for All-Frequency Precomputed Radiance Transfer using Spherical Radial Basis Functions and Clustered Tensor Approximation

Yu-Ting Tsai  Zen-Chung Shih

Department of Computer Science, National Chiao Tung University, Taiwan

This document lists the errata for the ACM SIGGRAPH 2006 paper “All-Frequency Precomputed Radiance Transfer using Spherical Radial Basis Functions and Clustered Tensor Approximation”. The differences are highlighted in red boldface.

1. Equation 5 in Section 4.1 should be

\[
(G^{Abel \ast m} H^{Abel})(\xi_g \cdot \xi_h; \lambda_g, \lambda_h) = \omega_m \frac{1 - (\lambda_g \lambda_h)^2}{[1 - 2(\lambda_g \lambda_h)(\xi_g \cdot \xi_h) + (\lambda_g \lambda_h)^2]^{3/2}}.
\]

2. Equation 26 in Appendix A should be

\[
I_\nu(x) = \frac{(\frac{1}{2} x)^\nu}{\Gamma(\nu + \frac{1}{2})} \Gamma(\frac{1}{2}) \int_{-1}^{1} e^{\pm xz} (1 - z^2)^{\nu - \frac{1}{2}} dz.
\]

In fact, this is not a real error, but the above equation would better reveal the relations among Equations 6, 25, and 26.

3. Equation 27 in Appendix A should be

\[
(G^{Gau \ast 2} H^{Gau})(\xi_g \cdot \xi_h; \lambda_g, \lambda_h) = 4\pi e^{-(\lambda_g + \lambda_h)} \frac{\sinh(\|r\|)}{\|r\|}.
\]

4. Reference [De Lathauwer et al. 2000] should be