

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

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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

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

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

$$(G^{Gau} *_2 H^{Gau})(\xi_g \cdot \xi_h; \lambda_g, \lambda_h) = 4\pi e^{-(\lambda_g + \lambda_h)} \frac{\sinh(\|r\|)}{\|r\|}.$$

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

DE LATHAUWER, L., DE MOOR, B., AND VANDEWALLE, J. 2000. On the Best Rank-1 and Rank- (R_1, R_2, \dots, R_n) Approximation of Higher-Order Tensors. *SIAM Journal on Matrix Analysis and Applications* 21, 4, 1324–1342.