

# Errata for *Scattered Data Interpolation for Computer Graphics* SIGGRAPH Asia Course

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These errata are with respect to the 73-page version of the course notes that appears in the ACM Digital Library. Corrected versions of the notes include a small version number in the title, such as

## Scattered Data Interpolation for Computer Graphics v1.2

p.12, Moving least squares: See the slides for a corrected version of the derivation here.

Note that the choice of weights  $w_i(d) = e^{-\frac{d^2}{\sigma^2}}$  will only approximate the data. To interpolate it is necessary to use weights that go to infinity as the distance to a data point goes to zero (as is the case with Shepard interpolation), e.g.  $w_i(d) = 1/d$ .

p.22, The description of the weights in the radial basis interpolation was incorrect.

p.38, In the section 5.7, Scattered interpolation on meshes, the equation

$$\min_f \int \left( \frac{d^2}{dx^2} f(x, y) \right)^2 + \left( \frac{d^2}{dy^2} f(x, y) \right)^2 dx dy \Rightarrow \nabla^2 f = 0$$

should read

$$\min_f \int \left( \frac{d^2}{dx^2} f(x, y) + \frac{d^2}{dy^2} f(x, y) \right)^2 dx dy \Rightarrow \nabla^2 f = 0$$