$\int d(u,v) = ||x_u - x_v||^2 + ||y_u - y_v||^2 \le r$ 

 $\int w(u,v) = e^{-\frac{(I_u - I_v)^2}{\sigma_I^2} - \frac{d(u,v)^2}{\sigma_d^2}} \ge s$