| 初期視覚における正則化 | |
|------------------------------|---|
| 問題 | 正則化原理 |
| Edge detection | $\int \left[(Sf - i)^2 + \lambda (f_{xx})^2 \right] dx$ |
| Optical flow (area based) | $\int [i_x u + i_y v + i_t]^2 + \lambda (u_x^2 + u_y^2 + v_x^2 + v_y^2) dx dy$ |
| Optical flow (contour based) | $\int \left[(V \cdot N - V^N)^2 + \lambda ((\partial/\partial_s)V)^2 \right] ds$ |
| Surface reconstruction | $\int [S \cdot f - d)^2 + \lambda (f_{xx}^2 + 2f_{xy}^2 + f_{yy}^2)^2] dx dy$ |
| Spatiotemporal approximation | $\int [(S \cdot f - i)^2 + \lambda (\nabla f \cdot V + ft)^2] dx dy dt$ |
| Colour | $ I^{\nu}-Az ^2+\lambda Pz ^2$ |
| Shape from shading | $\int [(E - R(f, g))^2 + \lambda (f_x^2 + f_y^2 + g_x^2 + g_y^2)] dx dy$ |
| Stereo | $\int \{ [\nabla^2 G * (L(x, y) - R(x + d(x, y), y))]^2$ |
| | $+\lambda(\nabla d)^2$ dx dy |