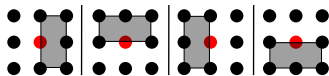# Kernels for Curvature Filter

Following kernels correspond to the most left case in above figure.

Filter	Prior Surface	Regularization	One Kernel		
GC	Developable	$\int |\kappa_1 \kappa_2| \mathrm{d}\vec{x}$	0 $\frac{1}{2}$ 0 0 -1 0 0 $\frac{1}{2}$ 0		
MC	Minimal Surface	$\int |\kappa_1 + \kappa_2| \mathrm{d}\vec{x}$	0 $\frac{5}{16}$ -1 0 -1 $\frac{5}{8}$ 0 $\frac{5}{16}$ -1		
Bernstein	Minimal Surface	$\int |\kappa_1 + \kappa_2| \mathrm{d}\vec{x}$	0 $\frac{1}{2}$ 0 0 -1 0 0 $\frac{1}{2}$ 0		
TV	piece wise constant	$\int |\nabla U| \mathrm{d}\vec{x}$	0 $\frac{1}{5}$ $\frac{1}{5}$ 0 -1 $\frac{1}{5}$ 0 $\frac{1}{5}$ $\frac{1}{5}$		