MBS 98-12

Constructing surfaces and contours in displays of color from motion: the role of nearest neighbors and maximal disks

Cali Fidiopiastis, Donald D. Hoffman, William Prophet, Manish Singh

---

Displays of color from motion trigger human vision to construct apparent motion of a subjective colored surface bounded by a clear subjective contour. In this paper, we show that the perceptual strength of this construction depends on the density and regularity of dot placement, and that this can be described by three objective measures: nearest-neighbor distance, mean of maximal disks, and variance of maximal disks.