1040-52-142 **Thomas Lewiner*** (tomlew@mat.puc-rio.br), Rua Marquês de São Vicente, 225, Gávea - Rio de Janeiro, Rio de Janeiro, RJ 22453-900, Brazil, and **Marcos Craizer**. *Euclidean, affine and further curvature estimators.*

Basic geometric estimators such as curvatures are delicate to discretize. In particular, there usually exist several discrete versions of geometric measures, each satisfying only part of the properties of their differential counterpart.

For most image processing applications, those discrete measures translate the intuition acquired from classical geometry to help in designing practical methods for edition, recognition and shape reconstruction, among others.

This work proposes to use first-order information to estimate curvatures, in different curve geometries from Euclidean to affine and projective. (Received January 30, 2008)