DISCRETE CURVATURES

CHRISTIAN MÜLLER

A key notion in differential geometry is the notion of curvature. We will study different discretizations of curvatures and analyze their properties. We will lay our focus on different incarnations of the well known Steiner formula, which measures the volume of offset surfaces in terms of curvatures. Furthermore, we will consider generalizations thereof and point to discrete curvature notions in other discrete settings.

Institute for discrete mathematics and geometry, TU Wien, Vienna
E-mail address: cmueller@geometrie.tuwien.ac.at