



Speaker: Brandon Rowekamp
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Monday, April 18, 2011
4:15 PM
229 Hayes-Healy Hall

Title: The Geometry of Planar Pixelations

Abstract:

A shape in the plane can be approximated by a set of square pixels. This pixelation is a poor approximation in that it does not capture important information about the set, such as length or Euler characteristic. However, given certain niceness conditions on the original set, it is possible to generate a piecewise linear set which approximates which recovers these invariants of the original set using only information from the pixelation.