Kathleen M Iwancio* (kmiwanci@ncsu.edu), Department of Mathematics, 255 Harrelson Hall, Campus Box 8205, Raleigh, NC 27695. Noise Tolerant Planar Curve Matching Using Invariants. Curve matching has a variety of applications in computer image processing and image recognition. This poster presents an investigation of a new noise tolerant method based on integral invariants. Applications to automated puzzle solving are considered. (Received August 21, 2008)