

Energy-Driven Polygonal Approximation for Shape Classification

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Statistical shape theory has emerged as a promising avenue for many recognition and classification problems. Its direct application, however, presents many challenges not the least one being the systematic extraction of a shape from an image of an object in a scene, and its admissibility as such in presence of a multitude of sources of variability. We briefly review the state of things, present a variational approach using intrinsic image information, and discuss the challenges ahead.