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Peter J. Olver* (olver@umn.edu), School of Mathematics, University of Minnesota, Minneapolis, MN 55455. *Invariant histograms and signatures for object recognition and symmetry detection.*

I will survey recent developments in the use of group-invariant histograms, using distances, areas, etc., and signatures, using differential invariants, joint invariants, invariant numerical approximations, etc., for object recognition and symmetry detection in images, including recent applications to jigsaw puzzle assembly. (Received September 06, 2012)