Discussion: Intrinsic Shape Analysis: Geodesic PCA for Riemannian Manifolds Modulo Isometric Lie Group Actions

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Abstract

Statistical analysis on shape spaces poses special challenges in two contrasting situations: (a) when the data are highly dispersed, and (b) when the data are nearly degenerate (e.g. nearly collinear 3-d shapes). We shall discuss various approaches to tackling these situations and draw out some connections to directional data analysis.