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**Christopher P. Chambers**, CA , and **Alan D Miller\*** ([alan@hss.caltech.edu](mailto:alan@hss.caltech.edu)), Mail Code 228-77, Caltech, Pasadena, CA 91125-7700. *A Measure of Bizarreness*.

We introduce a path-based measure of convexity to be used in assessing the compactness of legislative districts. Our measure is the probability that a district will contain the shortest path between a randomly selected pair of its' points. The measure is de&#64257;ned relative to exogenous political boundaries and population distributions. (Received September 15, 2008)