

Meeting: 1006, Lubbock, Texas, SS 1A, Special Session on Topology of Continua

1006-54-218 **Włodzimierz J. Charatonik*** (wjcharat@umr.edu), Department of Mathematics and Statistics, University of Missouri-Rolla, Rolla, MO 65409, and **Matt Insall** (insall@umr.edu), Department of Mathematics and Statistics, University of Missouri-Rolla, Rolla, 65409. *Metrics on Hyperspaces - Intuition and Theory.*

We will argue that widely used in topology Hausdorff distance is a rough tool in practical applications (image processing, robotics, terrain analysis). Then we will construct metrics and we will argue that they possess some desirable properties. This approach leads to reach theory of discrepancy functions on hyperspaces, as well as possible practical applications. (Received February 15, 2005)