

Meeting: 1002, Pittsburgh, Pennsylvania, SS 15A, Special Session on PDE-Based Methods in Imaging and Vision

1002-94-200 **Murali Rao*** (rao@math.ufl.edu), 358 Little Hall, Gainesville Fl 32611-8105, Gainesville, FL
32611-8105. *Information Theoretic Mean*. Preliminary report.

We use the Kullback-Leibler Divergence measure of dissimilarity to construct a mean (average). We call this the Information Theoretic Mean, ITM for short. This mean has some interesting properties not seen in the standard arithmetic mean. This ITM induces its own dissimilarity measure. (Received September 14, 2004)