1128-51-63   **Yunfeng Hu**, **Bala Krishnamoorthy**, **Matthew Hudelson**, **Altansuren Tumurbaatar***
(`atumurbaatar@math.wsu.edu`) and **Kevin R Vixie**. *Median Shapes on Simplicial Complexes.*

In this paper, we will introduce median shapes in the simplicial settings and formulate it as an Integer Linear Optimization problem which finds a median shape of input shapes represented as simplicial currents embedded in an underlying finite simplicial complex. We will show experiment results and explore related applications. (Received February 08, 2017)