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**Yunfeng Hu, Matthew Hudelson, Bala Krishnamoorthy\*** (kbala@wsu.edu), **Altansuren Tumurbaatar** and **Kevin Vixie**. *Median Shapes*.

We introduce new ideas for the average of a set of general shapes, which we represent as currents from geometric measure theory. Using the flat norm to measure the distance between currents, we present a mean and a median shape. In the discrete setting, we model shapes as chains on a finite simplicial complex. We demonstrate that the median shape of chains can be found efficiently by solving a linear program. (Received September 11, 2016)