Enrique Alvarado* (ealvarado9611@gmail.com). The multi-scale flat norm and applications: an introduction.

In geometric measure theory, the flat norm has been used as a metric in the space of currents since its introduction by Hassler Whitney in 1957. In 2007 it was noticed that the $L^1$TV functional that is used in image analysis was calculating a multi-scale generalization of the flat norm. As an introduction to the talks of Ibrahim and Hu, we will explain the multi-scale flat norm and the space of currents, and show an example of how it applies to image analysis. (Received September 18, 2015)