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**Hau-tieng Wu\*** (hauwu@math.toronto.edu), **Chen-Yun Lin** and **Arin Minasian**. *Combining Riemannian manifolds embedding and vector nonlocal median to study cytometry*. Preliminary report.

We will discuss the vector nonlocal mean/median, a generalization of the nonlocal mean/median image denoising scheme. Its feasibility is theoretically justified by the finite dimensional embedding theory of connection Laplacian and statistical arguments. In addition to a simulated study, an application to the cytometry will be reported if time permits. (Received August 15, 2016)