R. Blake Rector* (r.b.rector@pdx.edu) and Nguyen Mau Nam (mau.nam.nguyen@pdx.edu). Geometric Approach to Convex Analysis in Locally Convex Topological Vector Spaces.

We use a geometric approach to study generalized differentiation of convex functions and set-valued mappings in infinite dimensions. This approach provides easy access to basic subdifferential formulas as well as new calculus results on subgradients of optimal value functions and coderivatives of set-valued mappings in locally convex topological vector spaces. (Received September 11, 2015)