Giovanni Colombo* (`colombo@math.unipd.it`), Dipartimento di Matematica Pura ed Applicata, Università di Padova, Italy, and **Peter Wolenski** (`wolenski@math.lsu.edu`), Department of Mathematics, Louisiana State University, USA, *On a Class of Generalized Distances in Hilbert Spaces*

Some properties which are known for distance and metric projections in Hilbert spaces are extended to a class of minimum time problems with constant dynamics but not necessarily convex target. Fréchet and proximal subgradients of a minimum time function are explicitly computed, under various assumptions on the dynamics and on the target. Special emphasis is placed on the regularity properties of a generalized metric projection.