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Mau Nam Nguyen* (mau.nam.nguyen@pdx.edu), Fariborz Maseeh Department of Math & Stats, Neuberger Hall, Room 334, 725 SW Harrison Street, Portland, OR 97201. *Variational Analysis of Directional Minimal Time Functions and Applications.*

In this talk, we will present our new results on variational analysis of directional minimal time functions that specify the minimal time for a vector to reach an object following its given direction. We will provide a careful analysis of general and generalized differentiation properties of this class of functions. The analysis allows us to study a new model of facility location that involves sets.

(This talk is based on joint work with C. Zalinescu) (Received September 21, 2012)