

**Rozoveanu, Petru**, *The Clarke's subdifferential for vector valued functions*

**Abstract:** In this paper we examine the construction of Clarke's derivative for vector-valued functions. We use another kind of Lipschitz functions, which allow us to leave the context of normed spaces. As base of the generalization we use the approach used by Clarke for real functions. For vector-valued functions. Clarke uses the Rademacher theorem, which is not available in general contexts.

**Keywords:** directional derivative, subdifferential, vectorial functions