

A CHARACTERIZATION OF CONE-CONVEX FUNCTIONS

DAISHI KUROIWA, NICOLAE POPOVICI, AND MATTEO ROCCA

ABSTRACT. An interesting result established by Crouzeix in 1977 states that a real-valued convex function defined on a linear space is convex if and only if each function obtained from it by adding a linear functional is quasiconvex. The aim of this paper is to extend this result for vector-valued functions and for set-valued maps.

(D. Kuroiwa) SHIMANE UNIVERSITY, MATSUE, JAPAN

(N. Popovici) BABEȘ-BOLYAI UNIVERSITY, CLUJ-NAPOCA, ROMANIA

(M. Rocca) UNIVERSITY OF INSUBRIA, VARESE, ITALY