Generalized convexity of vector functions w.r.t. polyhedral cones

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08.11.2018

Abstract

We present new characterizations of several classes of generalized convex functions taking values in partially ordered topological vector spaces. In particular, we analyze the case where the ordering cone is polyhedral. These results are based on a joint research with Christian Günther (Martin Luther University, Halle-Wittenberg, Germany).