ON SUBGRADIENT PROJECTORS

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ABSTRACT. Subgradient projectors play an important role in optimization and feasibility problems.

We define a subgradient projector via generalized subgradients.

We study basic properties of subgradient projectors, and give characterizations that when a subgradient projector is a cutter; when a mapping is subgradient projector of convex functions; and when the subgradient projector is linear. Local convergences are given.