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Characterization of Weaker Sharp Solutions of a Variational Inequality Problem without Gap Functions

For a variational inequality problem, its solution set is usually characterized with relevant gap functions if the set is weakly sharp. We characterize the solution set for a more general case. Without any information of gap functions, we further characterize the weak sharpness of the set. In particular, we present an equivalent statement for a pseudomonotone⁺ mapping so that the weak sharpness of the set of relevant VIP is of simpler characterization.