

WEAK SHARP MINIMA: THEORY AND APPLICATIONS

by

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Abstract: The notion of weak sharp minima is an important tool in the analysis of the perturbation behavior of certain classes of optimization problems as well as in the convergence analysis of algorithms designed to solve these problems. It unifies a number of important ideas in optimization. This presentation will focus on the foundation for the theory of weak sharp minima and the links between the notions of weak sharp minima, bounded linear regularity, linear regularity, metric regularity, and error bounds in convex programming. Along the way, we obtain both new results and reproduce many existing results from a fresh perspective. The results presented in this talk are based on joint work with James V. Burke of University of Washington.

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