

INEQUALITY CONSTRAINED SPACE OPTIMIZATION PROBLEMS

Definition

An optimization problem is (X, f) is an inequality constrained space optimization problem if $X \subset \mathbf{R}^n$, $f: \mathbf{R}^n \to \mathbf{R}$, and there exists $g: \mathbf{R}^n \to \mathbf{R}^n$ so that

$$X = \{x \in \mathbf{R}^n\} g(x) \le 0$$

