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(ML 15.1) Newton's method (for optimization) - intuition Introduction to Optimization: What Is Optimization? Constrained optimization introduction MIT Numerical Methods for PDEs Lecture 17: Newton's method and quasi-Newton for nonlinear systems Convex Optimization and Applications - Stephen Boyd Jorge Nocedal: \"Tutorial on Optimization Methods for Machine Learning, Pt. 2\"

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Lecture 18: Quasi-Newton methods David Bernal - Modern Computational Approaches to Nonlinear Discrete Optimization and Applications Mod-01 Lec-25 Numerical optimization : Region elimination techniques Nocedal Numerical Optimization Solution This shows that the problem has no solution. (c) The formulation is  $\min_{x_1, x_2} x_1 x_2$ . s.t.  $x_1 + x_2 = 2$  Since the constraint of this problem is linear, we eliminate  $x_2$  from the objective and get an unconstrained problem, namely  $\min_{x_1} x_1(2 - x_1) = -(x_1 - 1)^2 + 1$ . Obviously, when  $|x_1 - 1| \rightarrow \infty$ , we see that  $-(x_1 - 1)^2 + 1 \rightarrow -\infty$ .

### NUMERICAL OPTIMIZATION

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$p = (B + I)^{-1}g + v$ , (4.16) where  $v$  is a vector that satisfies  $v^T(B + I)^{-1}g \geq 0$ . (This condition ensures that  $v$  does not move back toward zero, but instead continues to move roughly in the direction of  $-(B + I)^{-1}g$ ). When  $B$  has zero eigenvalues but no negative eigenvalues, the Cauchy step  $p$  is used as the approximate solution of (4.9).

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$2 = 1$ , and the optimal objective is 2. (b) The formulation is  $\min x_1 + x_2$  (61a) s.t.  $x_1^2 + x_2^2 = 1$  (61b)  $x_1 + x_2 = 3$  (61c) Substituting equation (61c) into (61b), we get  $x_1^2 + (3 - x_1)^2 = 1$  which implies  $x_1^2 - 6x_1 + 10 = 0$ . This inequality has no solution; thus the feasible region of the original problem is empty.

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Nocedal specializes in nonlinear optimization, both in the deterministic and stochastic setting. The motivation for his current algorithmic and theoretical research stems from applications in image and speech recognition, recommendation systems, and search engines.

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