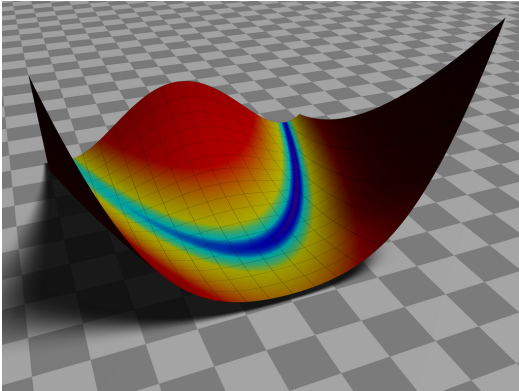


Introduction to Constrained Optimization

Lecture 14

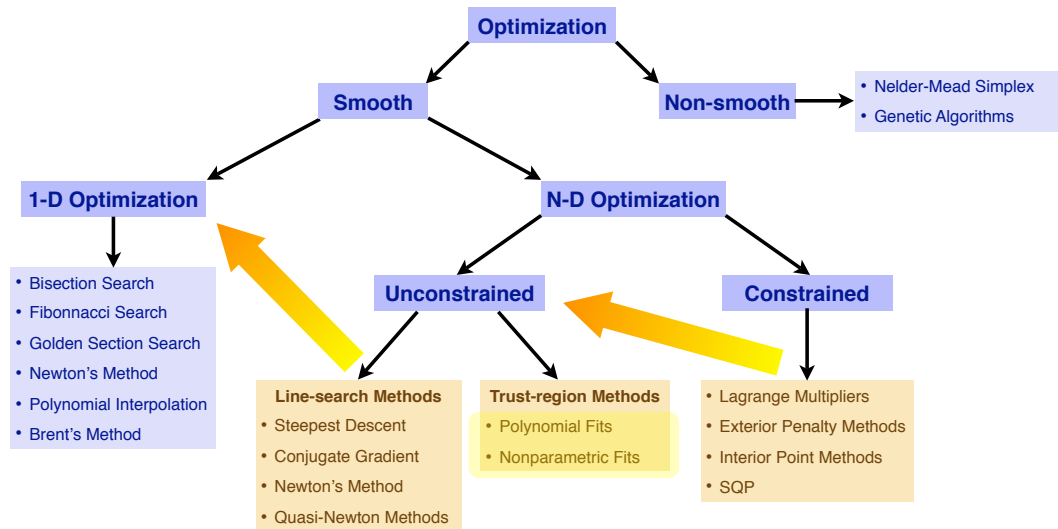


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Outline

Constrained Optimization

Example



$$\begin{aligned}
 &\text{minimize} && f(x) \\
 &\text{with respect to} && x \in \mathbb{R}^n \\
 &\text{subject to} && \hat{c}_j(x) = 0, \quad j = 1, \dots, \hat{m} \\
 & && c_k(x) \geq 0, \quad k = 1, \dots, m
 \end{aligned}$$

Example: Barnes Problem in Matlab and Python.