

ME 3001 Lecture, Roots of Non-Linear Equations

A Brief Overview of Optimization

- **First, A review the Bisection Method**

- The algorithm

- The code

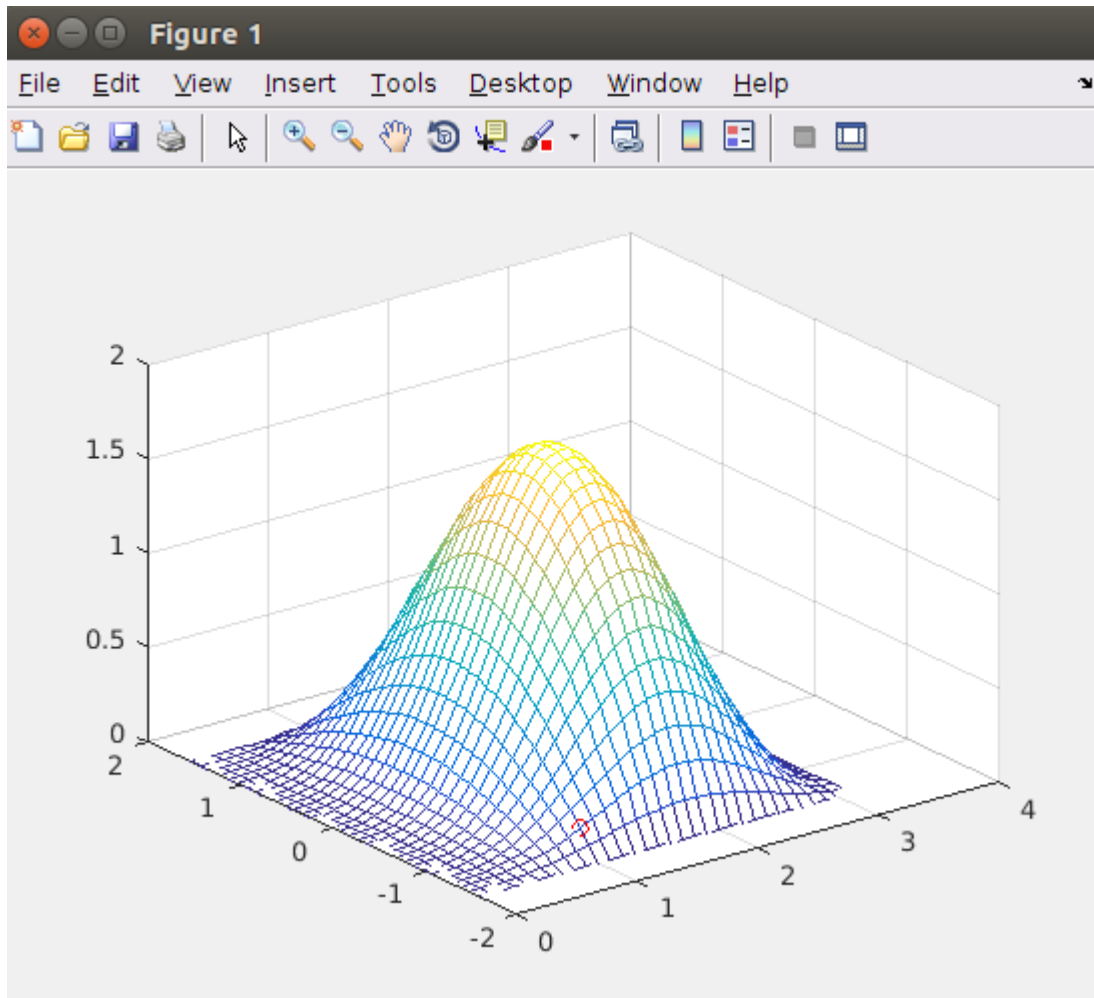
- **What is Optimization ?**
 - Find Local Minima and Maxima
 - Constraints

- **Root finding and Optimzation?**

- Using the derivative

- Constraints

- Optimization Techniques



- Brute Force

- Steepest Ascent

- **REMINDER - Homework 1 is due (11:59 PM)**
- **REMINDER - See instructions for submitting hw 1
- please resubmit**
- **REMINDER - MATLAB script from today's lecture
will be posted on ilearn.**
- **REMINDER - A simpler version of the code from
yesterday's lecture is posted on ilearn.**