



تخمین و شناسایی و سیستم ها Estimation & System Identification

بابک نجار اعرابی

دانشکده مهندسی برق و کامپیوتر دانشگاه تهران

نيم سال دوم سال تحصيلي 01-1400





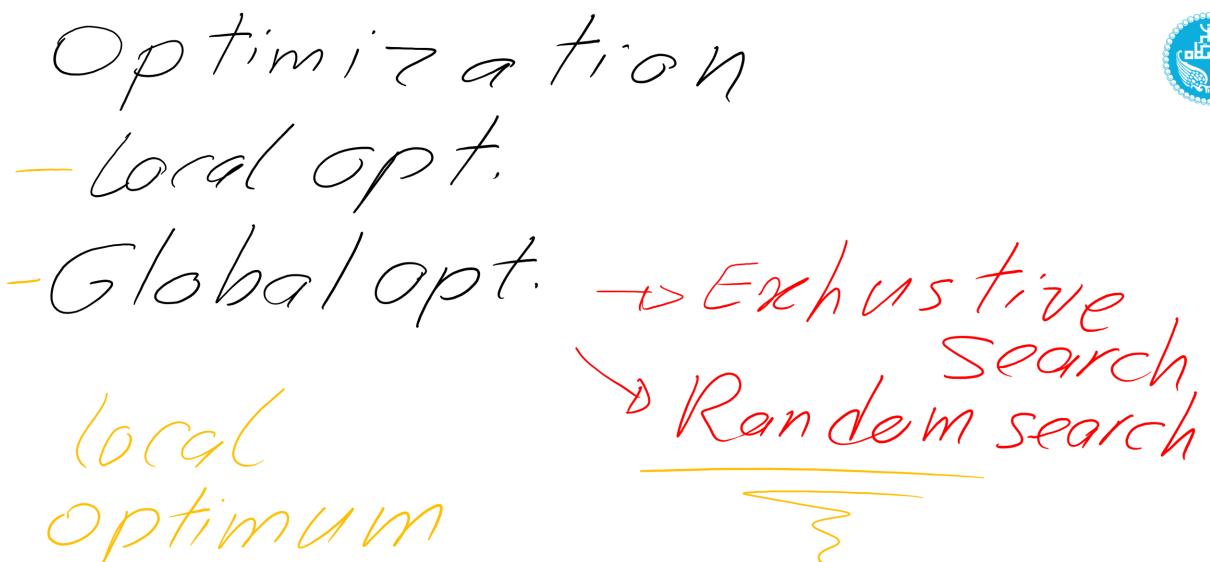
موضوع این جلسه

مروری بر روش های بهینه سازی جلسه دوم

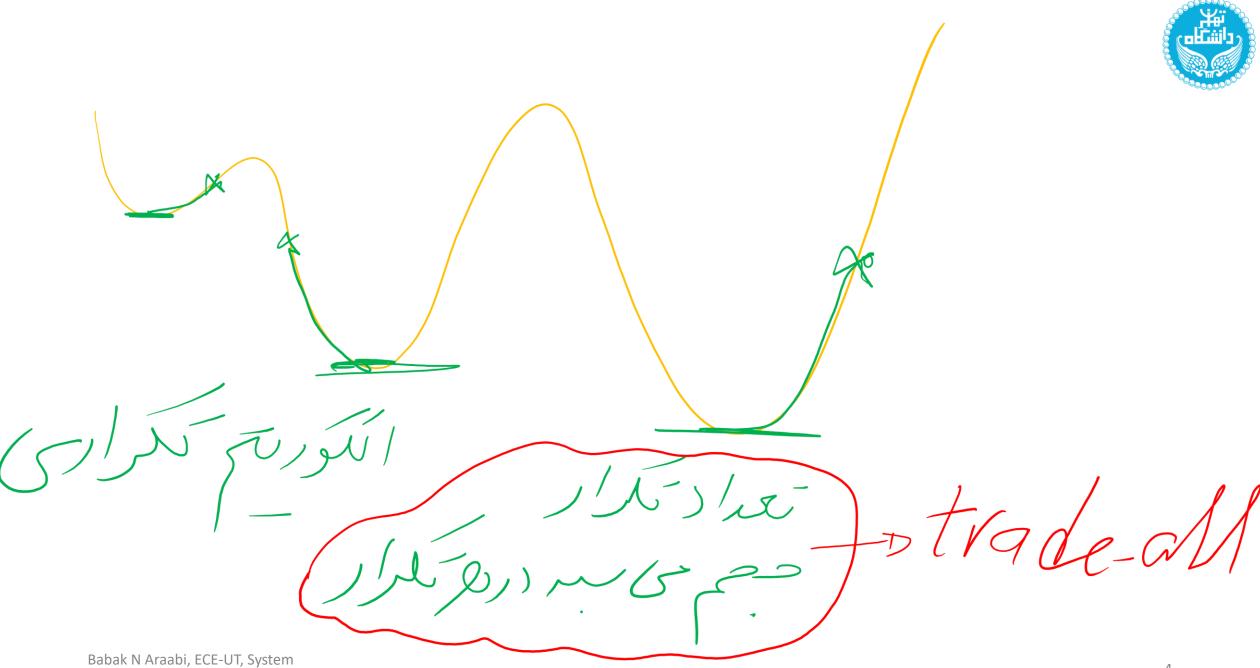
Babak Nadjar Araabi

School of Electrical & Computer Eng University of Tehran

ECE-UT - Spring 2022







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Direct Search Methods



10) 0+ag/in 10)) Schilt(0/6/5/2 -Simplezsearch [Nelder-Mead Method) -Hooke & Jeeves Method

Gradient-based Search

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Newton Method



$$\frac{I(Q) = I(Q_0) + |Q - Q_0| \nabla I(Q_0) + |Q - Q_0|$$

Sugsi-Nouton Method 3FG5) = 5.+ $\sum_{i+1} = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i^T \Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right) = \left(\frac{1}{1 - \frac{\Delta Q_i \cdot \Delta Q_i}{\Delta Q_i}} \right$ Babak N Araabi, ECE-UT, System 11 Identification, Spring 2022

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