## Homework #2 Into to Auto Trading Systems

Due date: February 19, 2019 (in class)

Important Note: All home works should be handed in hard copies. No late homework will be accepted.

Answers should contain both the Matlab program, PLUS screen snap shorts to demonstrate correct running of the program.

**Problem 1 (Strategy Implementation).** Download 1 miniute bar historical data using IB-Matlab for as far as you can (you may need to combine more downloads due to IB restrictions). Then write a function that can generate buy and sell signals using two moving averages MA(m) and MA(n) (m < n) of different window length. Run your function on the historical data (you can choose m and n values) and display your trading profit and loss curve.

**Problem 4 (Optimization).** Can you find the "best" strategy by back testing for m = 1, 2, 3, ..., n - 1, where n = 20.

## Reading Assignments (Important!)

**Problem 6.** Read the complete article cited in the Topics and Notes.