151163A - Financial Econometrics

Introduction

CHEUNG Ying Lun

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About me

- My name: CHEUNG Ying Lun
- My homepage: Link
- My email: cheungyinglun@cueb.edu.cn
- My office: 诚明楼321室
- My office hour:
  - By appointment
  - Please write an email announcing your concern before showing up in the office.

Course information

- Course title: Financial Econometrics
- Course code: 151163A
- Course website (first part only): Link
- Language of instruction: English
- Instructors:
  - Part 1: CHEUNG Ying Lun
  - Part 2: Sui LUO
- Class venue and time:
  - Mon 08:00-10:00 博学楼 606
  - Wed 10:00-12:00 博学楼 502

Assessment methods

- Exam date: 2019/11/13 (Week 11, Wed)
- Grade decomposition (50% of the course grade):
  - Class participation: 10%
  - Assignments: 20%
  - Exam: 70%
- Assignments will be given regularly. Please type your solutions with Word or LaTeX.

1. No stupid questions!

Classroom rule

1. No stupid questions!
   - No question is stupid! Feel free to ask questions!

Course schedule (First half)

1. Primer on financial econometrics
   - Price, returns, and compounding
   - Review of statistical methods
   - Value at risk and expected shortfall
2. Stationary time series
   - Market efficiency hypothesis
   - Stationarity and ergodicity
   - ARMA model
   - Estimation, inference and model selection
   - Forecasting
3. Nonstationary time series
   - Deterministic trends and unit root
   - Unit root tests
   - ARIMA model
   - *Price bubbles (Tentative)*

References

Main reference:

- R. S. Tsay, Analysis of Financial Time Series, 2010
- J. D. Hamilton, Time Series Analysis, 1994

Supplementary reference:

- M. H. Pesaran, Time Series and Panel Data Econometrics, 2015
- J. Y. Campbell, A. W. Lo and A. C. MacKinlay, The Econometrics of Financial Markets, 1997