0.1 Quantitive Finance

In this chapter we describe computational aspects related to Quantitative Finance applications :

- security pricing
- stochastic process as a central concept in quant finance, as well as the central object in real-time analytics
- drawing analogies
- equivalents of financial concepts in fields such as web analytics
- continuous vs discrete variables
- real-time discrete-time
- real-time continuous-time

notes :

- Markov process - variances of the changes in sucessive time periods are additive
- analogies
- Twitter topic process
- Trend detection and keyword bidding
- Economy of online auctions
- Towards efficient online marketplaces