Papers to review

Optimal execution

1) Julian Lorenz and Robert Almgren, Mean-Variance Optimal Adaptive Execution
2) A. Obizhaeva and J. Wang. Optimal trading strategy and supply/demand dynamics
3) Peter Kratz, Torsten Schöneborn, Portfolio liquidation in dark pools in continuous time
4) Sophie Laruelle, Charles-Albert Lehalle, Gilles Pagès, Optimal split of orders across liquidity pools: a stochastic algorithm approach
5) C. Frei and N. Westray. Optimal execution of a VWAP order: A stochastic control approach
6) Pierre Cardaliaguet, Charles-Albert Lehalle, Mean Field Game of Controls and An Application To Trade Crowding
7) Cont, R. and Kukanov, A. Optimal order placement in limit order markets
8) Charles-Albert Lehalle, Othmane Mounjid, Mathieu Rosenbaum, Optimal liquidity-based trading tactics

Make-Take Fees

9) Foucault, Thierry and Kadan, Ohad and Kandel, Eugene, Liquidity Cycles and Make/Take Fees in Electronic Markets
10) Bastien Baldacci, Dylan Possamaï, Mathieu Rosenbaum, Optimal make take fees in a multi-market maker environment

Market impact

11) Moro et al., Market impact and trading profile of hidden orders in stock markets
12) B. Toth, I. Palit, F. Lillo, and J. D. Farmer, Why is equity order flow so persistent?
13) Robert Almgren, Chee Thum, Emmanuel Hauptmann, and Hong Li, "Direct estimation of equity market impact"
14) Cont, Rama and Wagalath, Lakshithe, Risk Management for Whales

High-frequency price modelling

15) Bacry, Muzy, Hawkes Model for price and trades high-frequency dynamics
16) Weibing Huang, Charles-Albert Lehalle, Mathieu Rosenbaum, Simulating and analyzing order book data: The queue-reactive model

Market making and trading strategies

17) Guilbaud, Fabien and Pham, Huyên, Optimal high-frequency trading with limit and market orders
18) A. Cartea, S. Jaimungal, and J. Ricci. Buy low, sell high: A high frequency trading perspective
19) Cartea, Donnely, Jaimungal, Algorithmic Trading with Model Uncertainty
20) Olivier Guéant, Iuliia Manziuk, Deep reinforcement learning for market making in corporate bonds: beating the curse of dimensionality
21) Alexander Barzykin, Philippe Bergault, Olivier Guéant. Market making by an FX dealer: tiers, pricing ladders and hedging rates for optimal risk control

Optimal execution and options

22) Jaimungal, Kinzebulatov, Rubisov, Optimal Accelerated Share Repurchases
23) O. Guéant, I. Manziuk, J. Pu. Accelerated share repurchase and other buyback programs: what neural networks can bring
24) T. Li and R. Almgren. Option hedging with smooth market impact
25) O. Guéant and J. Pu. Option pricing and hedging with execution costs and market impact
26) Álvaro Cartea, Luhui Gan, Sebastian Jaimungal, Hedge and Speculate: Replicating Option Payoffs with Limit and Market Orders

Automated Market makers

27) Philippe Bergault, Louis Bertucci, David Bouba, Olivier Guéant, Automated Market Makers: Mean-Variance Analysis of LPs Payoffs and Design of Pricing Functions
28) Álvaro Cartea, Fayçal Drissi and Marcello Monga, Decentralised Finance and Automated Market Making: Predictable Loss and Optimal Liquidity Provision

Misc

29) Bruno Biais, Thierry Foucault et Sophie Moinas, Equilibrium Fast Trading