

## Numerical Methods and Models for Portfolio Liquidation and Risk Quantification.

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Abstract: "We analyze the liquidation process of a given portfolio in the context of static strategies. By a static strategy we mean, one that does not take into account the flow of information on price changes during the control process. Yet, it tries to perform in some optimal sense so as to minimize losses. Then, we propose an improvement of the classical models tackling the effects of the intraday changes and impact price. We do this by performing a Cholesky decomposition of the covariance matrix and adding to it a Tikhonov regularization term."