

A NEW FINANCIAL REALITY

- High Frequency Trading (HFT) constitutes around 40-50% of trading volume on US and European markets. HFT represents a genuine financial innovation but perhaps it can go too far? Lewis (2014) describes predatory HFTs as essentially adding an extra layer of transaction costs.
- Flash Crashes first came to prominence on May 6th 2010. Between 2.30-3.00pm EST CNA lost 10% of its value before recovering. Potentially only the timing of the event, away from the market close, prevented a catastrophe.
- The first major Flash Crash is usually identified as a crash in the USDOJP currency pair on August 16th 2007 between 8am and 12pm EST. However, perhaps the 1987 stock market crash can also be thought of as a less extreme version of modern Flash Crash?
- Flash Crashes are alarmingly common place and even have their own name and website: www.flashcrash.com
- Over 200 Flash Crash events have been documented for major NYSE and Nasdaq listed stocks whilst a range of Flash Crash events have been listed across other asset classes.
- To what extent can HFTs be held responsible for these Flash Crash events?

SIGNIFICANCE

Major stocks affected e.g. Accenture

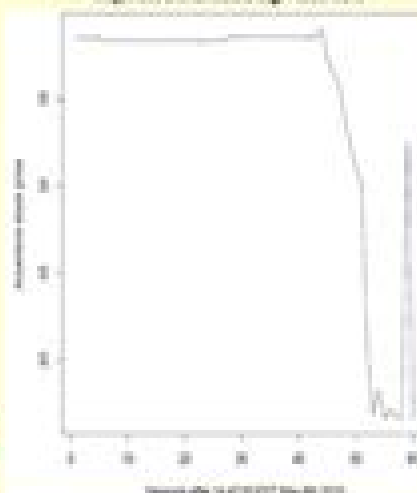


Figure 1: Stock price of Accenture 14:45-14:55 EST May 6th 2010.
Source: www.bloomberg.com

Highly capitalised stocks particularly vulnerable?

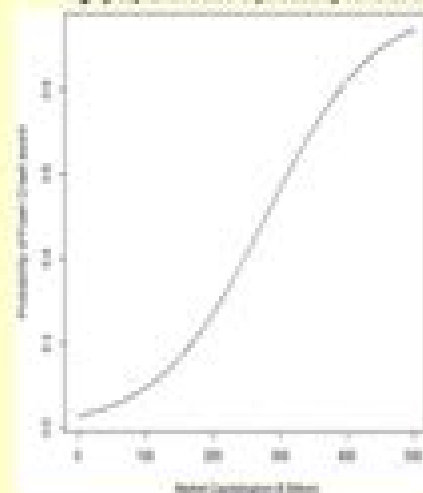


Figure 2: Estimated probability of experiencing a Flash Crash event for NYSE and Nasdaq listed stocks by market capitalisation.

AIM: Mathematical and statistical modelling of Flash Crashes

Conceptual challenges: social science meets hard science. At a granular enough level of detail do the usual market models and mechanisms still make sense?

Computational challenges: volume of data, availability and processing of HF time series, hard programming

Econophysics model of negative bubbles accounts for:

- Near instantaneous nature of HFT
- High rationality and high information processing power of HFTs
- Predatory HFT drives down the price then profits as the price quickly bounces back
- Simple adjustments to the model can account for Flash Crashes

Negative bubble model building on other applications (Cheuk and Fry, 2010):

$$dX_t = b(dB_t, dS_t) + v dt(t)$$

- Leads to a Poisson difference or Skellam distribution reflecting the fundamentally discrete and granular nature of financial markets
- Non-normally plus discreteness means that this can be a difficult model to use in applications

CONCLUSIONS AND RECOMMENDATIONS

- 1. Reduce Flash Crash risk by reducing the market impact of individual traders**
 - Flash Crashes have been linked to extreme forms of market liquidity (Sailley et al., 2011) and market concentration (Barthel et al., 2011)
 - Maintaining liquidity is also vitally important (Schnepper, 2010)
- 2. Limit the severity of Flash Crashes by limiting the profitability of HFT and predatory trading**
 - Development of time delays on the EX exchange (Lewis, 2014)
 - Incentivise (genuine) informational trades (e.g. by imposing Order to Trade Ratio limits)
 - The effects of time delays and transaction taxes have also been considered (John Safarik and Sugian, 2010)

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Gone In A Flash Murder Mayhem And High Frequency Revolt

Wolfgang Guggemos



Gone In A Flash Murder Mayhem And High Frequency Revolt:

Reviewing **Gone In A Flash Murder Mayhem And High Frequency Revolt**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Gone In A Flash Murder Mayhem And High Frequency Revolt**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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