

A decorative graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a neural network diagram.

# CORRELATION BETWEEN NEW EVENTS AND TWITTER'S SENTIMENT

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HAO GAO







# METHODS & EXPERIMENT I

- Stock Price:

- Event: New Products Releasing
- Time Interval:  $-10 \sim 0 \sim +10$
- Market Beta:  $R_i = \alpha + \beta R_B + T$
- Expect Return:  $ER_i = \hat{\alpha} + \hat{\beta} R_B$
- Excessive Return:  $\varepsilon_{i,t} = r_{i,t} - E(r_i | r_{n,t})$

- Over All Reaction:  $\sum_{i=-10}^{+10} \varepsilon_{i,t} = E_{i,+10}; \bar{E}_t = -\frac{\sum_i^M E_{i,t}}{\mu}$













