

# Seminar on Stream Data Mining

# STREAMCUBE: Hierarchical Spatio-temporal Hashtag Clustering for Event Exploration over the Twitter Stream



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<http://socialmedialab.upenn.edu/sites/default/files/uploads/images/DataMining.jpg>

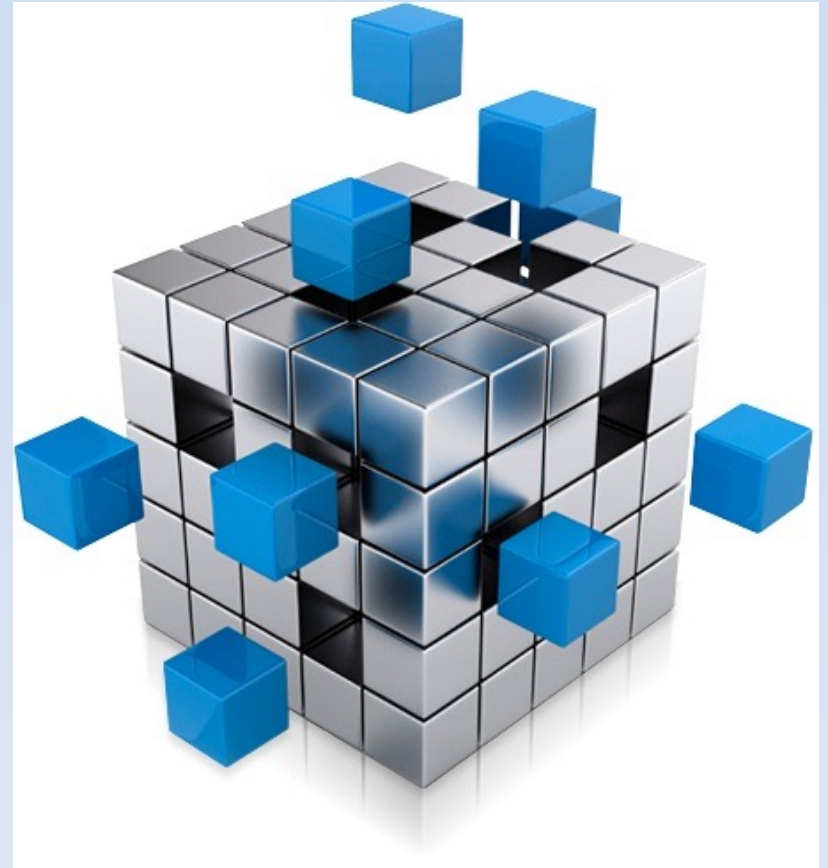
# Overview

- Real Time Event Detection
- Mining Twitter Stream
- Different Space Granularity
- Different Time Granularity
- Efficient Single Pass Algorithm
- Human Readable Event Clusters



# Features

- **Data Cube Structure Extension**
- **Spatial-Temporal Aggregation**
- **Incremental Merging**
- **Handle Content Evolving Hashtags**
- **Detecting Localized and Burst Events**



# Q & A

