Intelligent & Adaptive Systems Research Group

Opinion Mining & Issue Discovery (OMID)
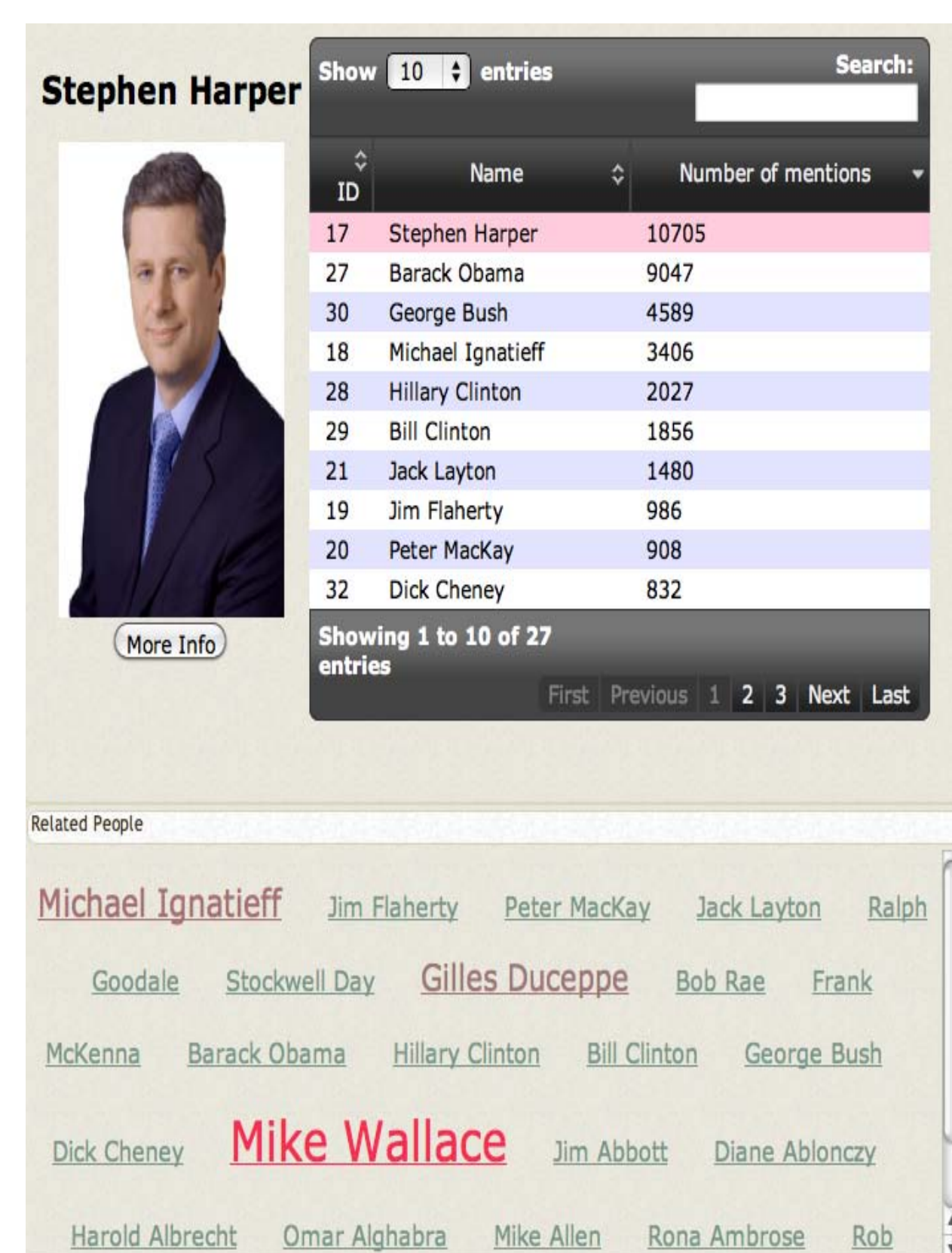
Faculty of Computer Science UNB

Problem

- Discovering new topics & trends within the political field for different time frames.

- Discovering new people of interest within the field.

- Tracking developing topics.

- Monitoring the quality and intensity of the information being processed.
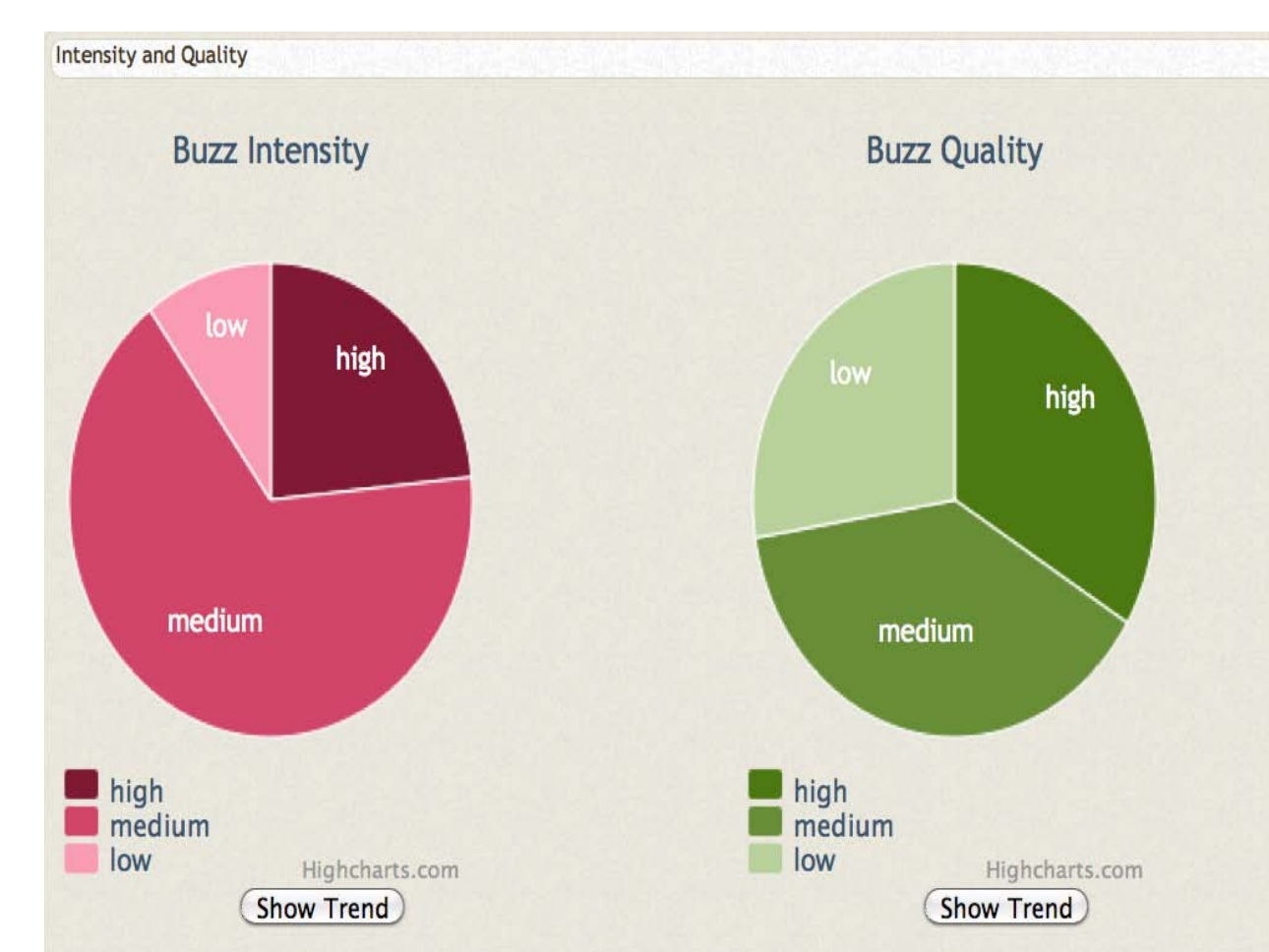
Real World Applications

- Monitoring the evolution of topics and issues throughout their lifetime.

- Monitoring of elections and events running up to elections.

- Tracking trends in topics that the OMID system is aware of.

- Discovering of topics or trends in issues that users were unaware were important to their systems.

Person-Person Relations

- Demonstrates the ranks of different politicians

- Demonstrates links between various politicians

- Size and Color are indicators of how linked different politicians are.

- This can be used to discover links between people that are not evident in every day life.

- Uses large amounts of data to create correlations that normal human observation may miss.
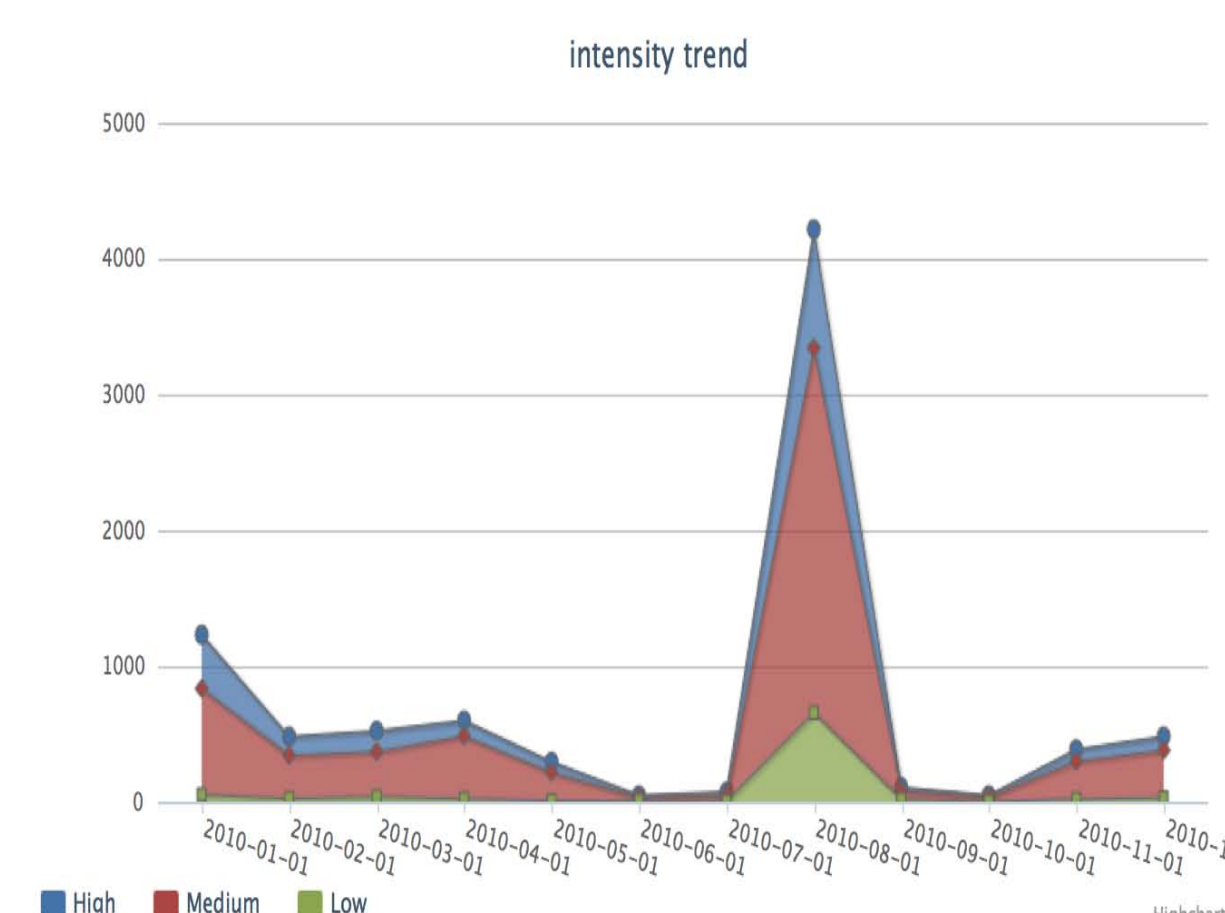

Intensity & Quality

- A fuzzy evaluation of the Intensity and Quality of all the posts within the OMID system.

- Each post is ranked as having one of the following levels of Quality/Intensity:
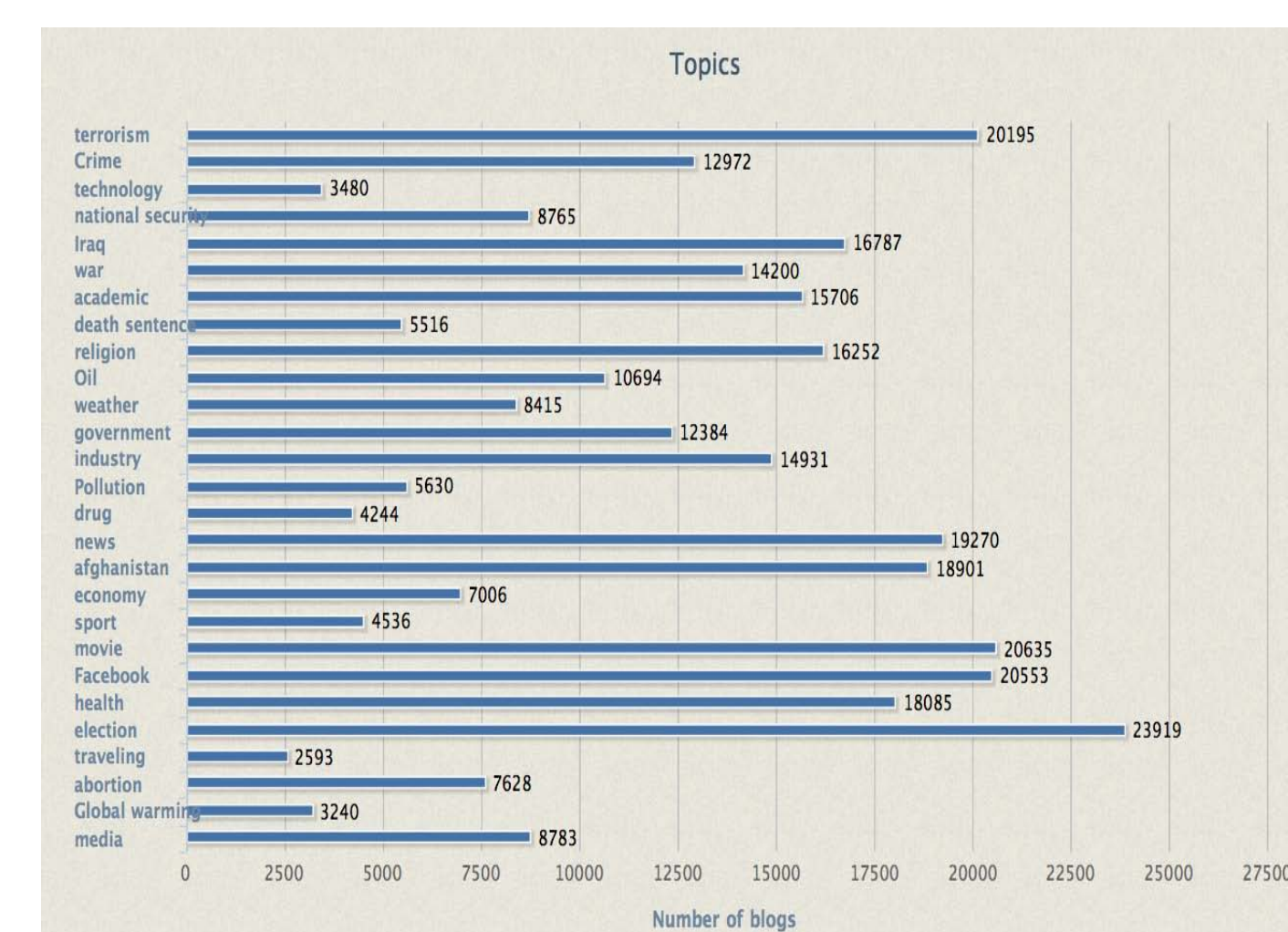 - High
  - Medium
  - Low

Trends

- The OMID system tracks developing trends in both intensity & Quality.

- The trends can be identified for different time frames as chosen by the end user.

- In the near future the OMID system will be able to track tends in topics in the form of the number of posts about said topics.

Person-Topic Relations

- Demonstrates links between various politicians and the topics that they talk about.

- Size and Color are indicators of how often that posts are found to be referring to the politician and that topic.

- This can be used to find links between different politicians and the varying topics that they discuss.

Topic Discovery

- Provides a general overview of all the topics within the OMID system.

- The OMID system is designed to recognize new topics that were not listed before.

- These new topics are added to the list of topics so that they can be tracked as those topics develop.

2011 Research Expo, Fredericton, NB, April 8, 2011