

Figure 12.1: Complete view of the graph stream visualization interface featuring tweets from President Obama's speech on the U.S. economy on 07/24/2013

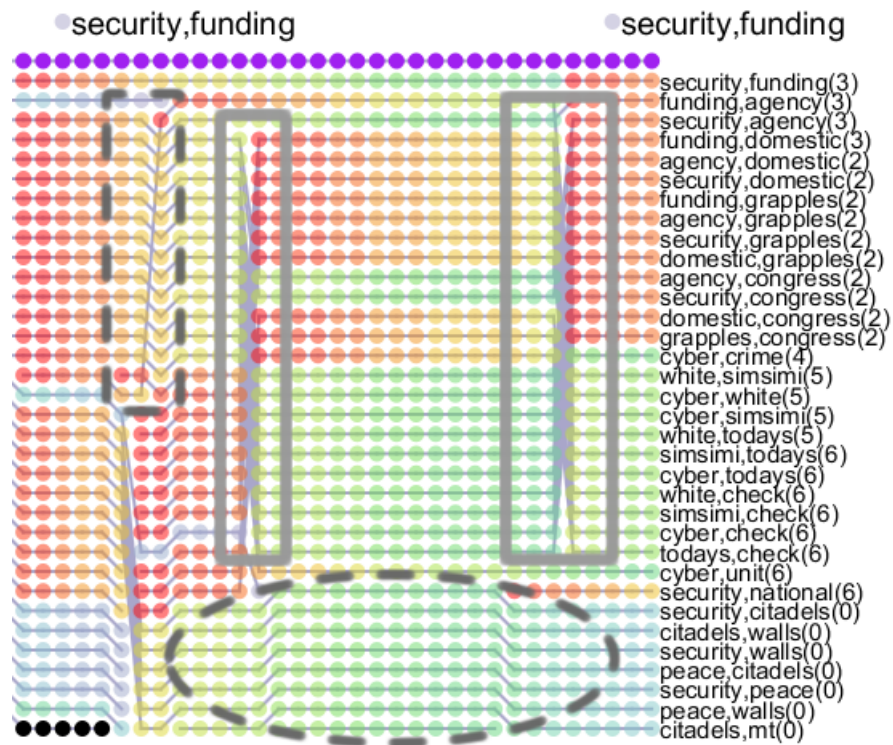


Figure 12.2: Tweets captured during a maritime security conference, 3/2/2015 - 3/4/2015

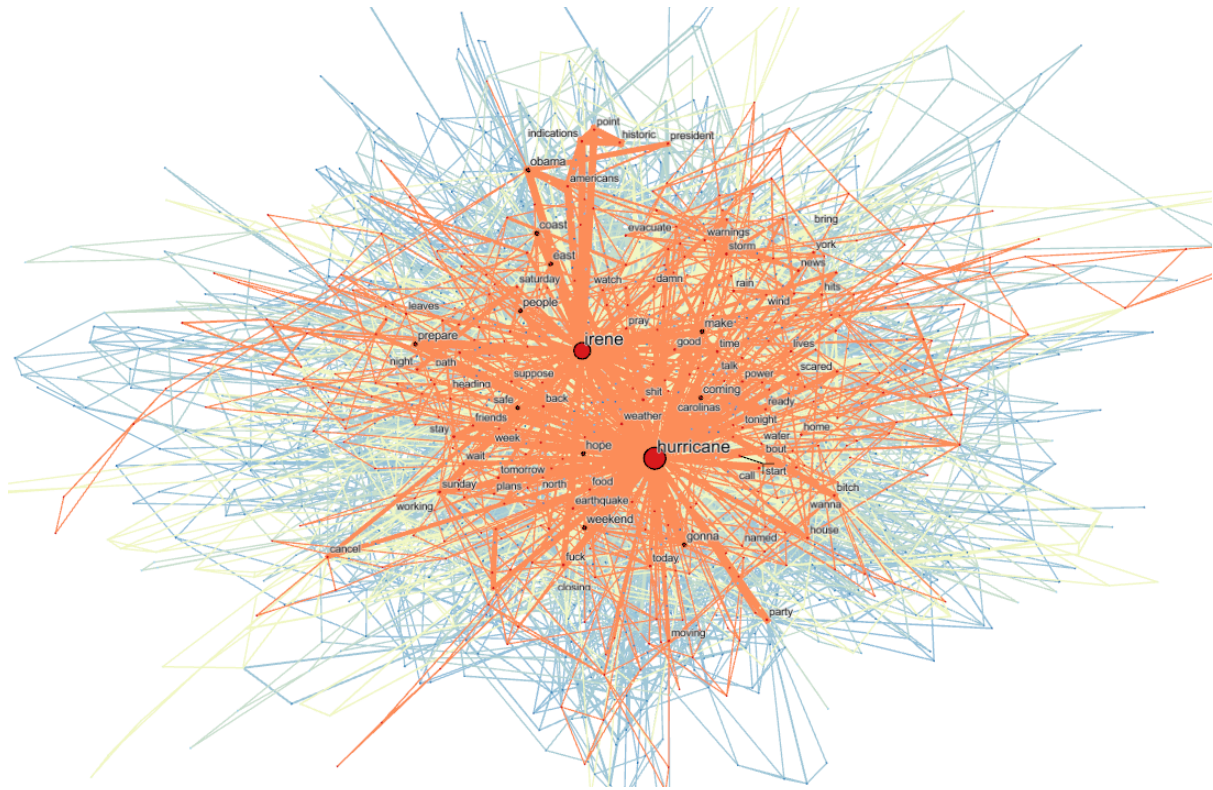


Figure 12.3: The recency graph of a stream of tweets on Hurricane Irene

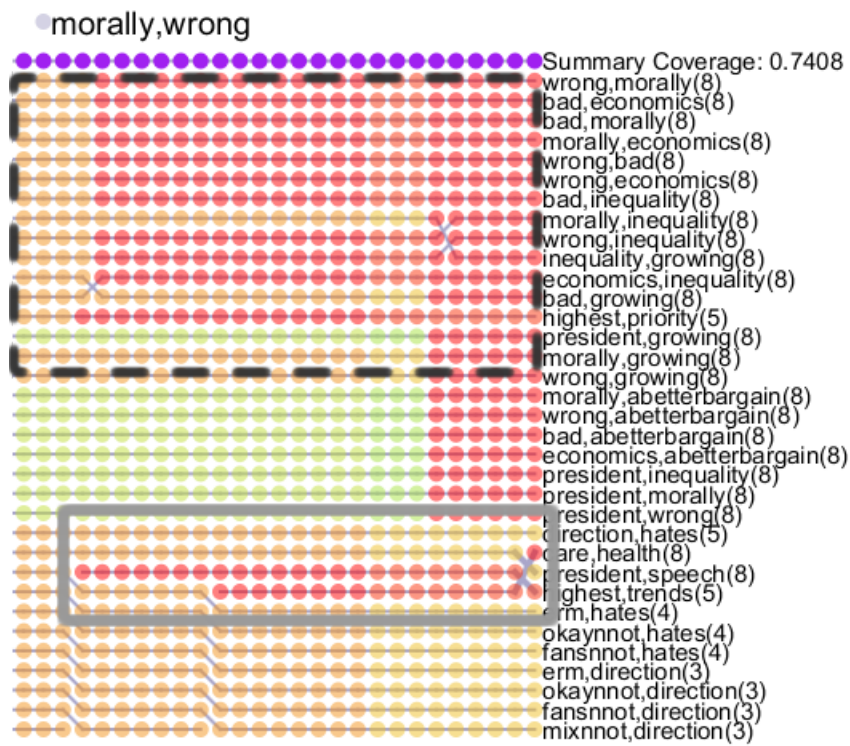


Figure 12.4: Speech on the economy by President Obama, 07/24/2013

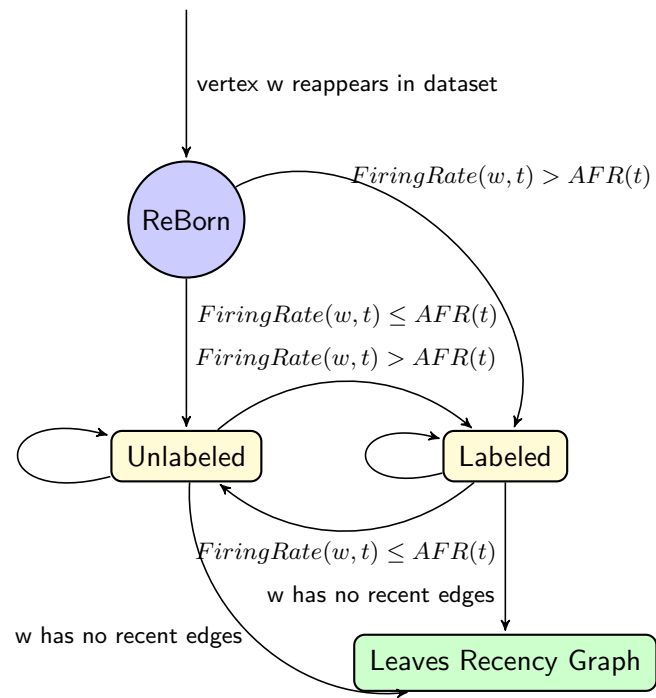


Figure 12.5: Vertex life in the Recency Graph

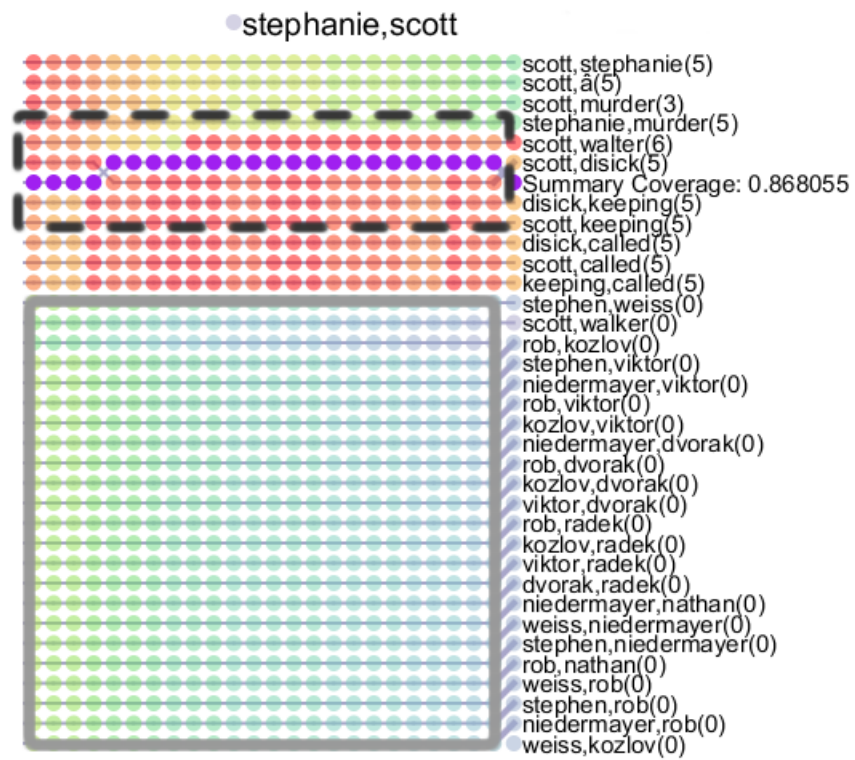


Figure 12.6: Tweets from the day following the Walter Scott shooting, 4/9/2015 - 4/12/2015

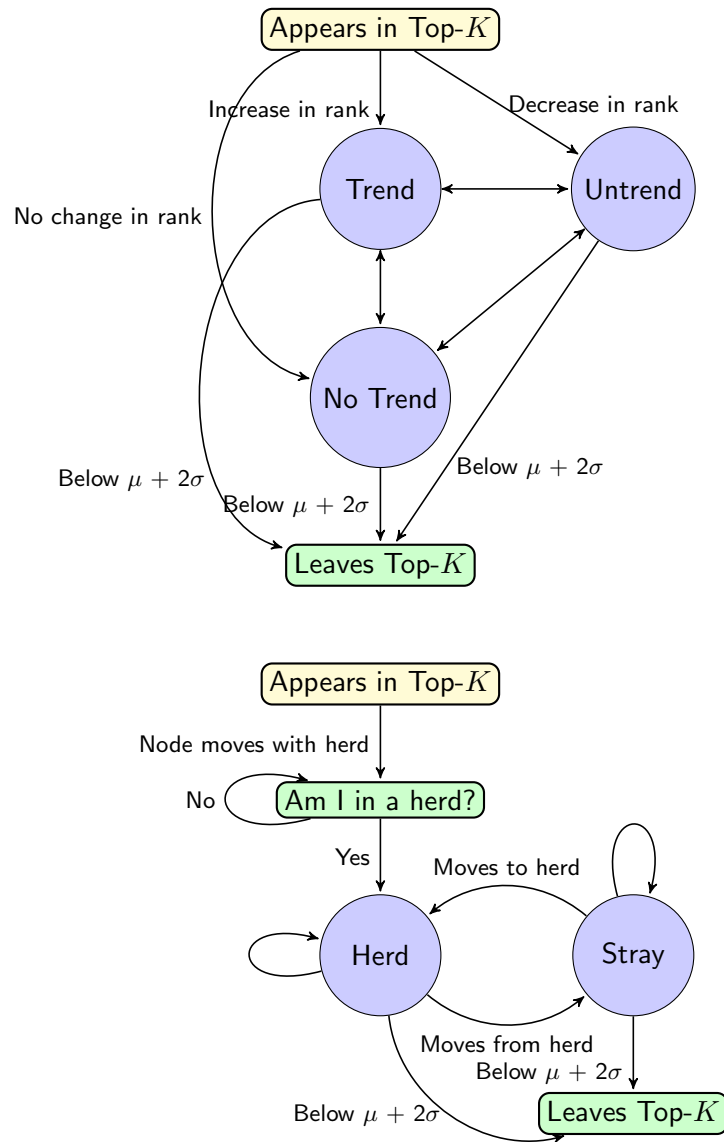


Figure 12.7: Parallel life cycles of a Top- K edge

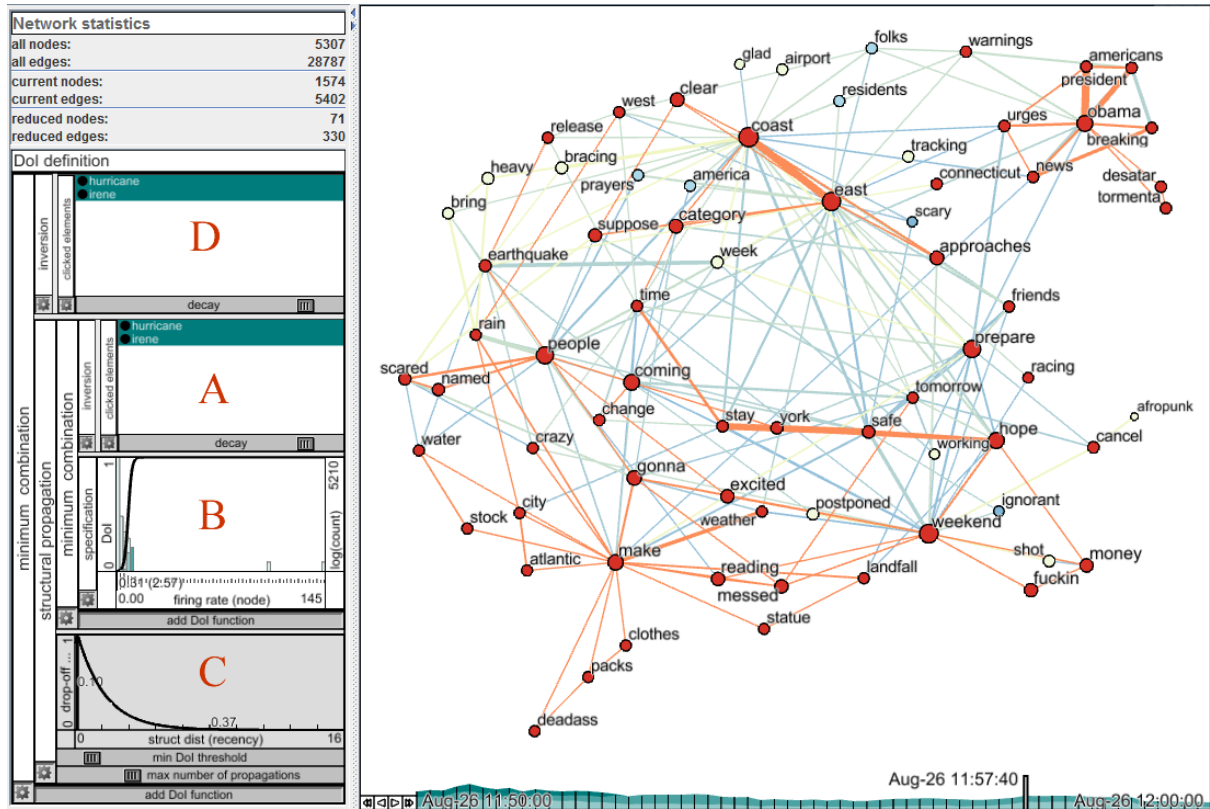


Figure 12.9: The second step of the DoI definition: Enhancing the DoI function by adding a structural propagation (DoI module C) that distributes high DoI values to neighboring nodes. The result can be seen on the right side. $doi_2(x_i) = \min(\{inv(select(x_i)), prop_s(doi_1(y_i))\})$

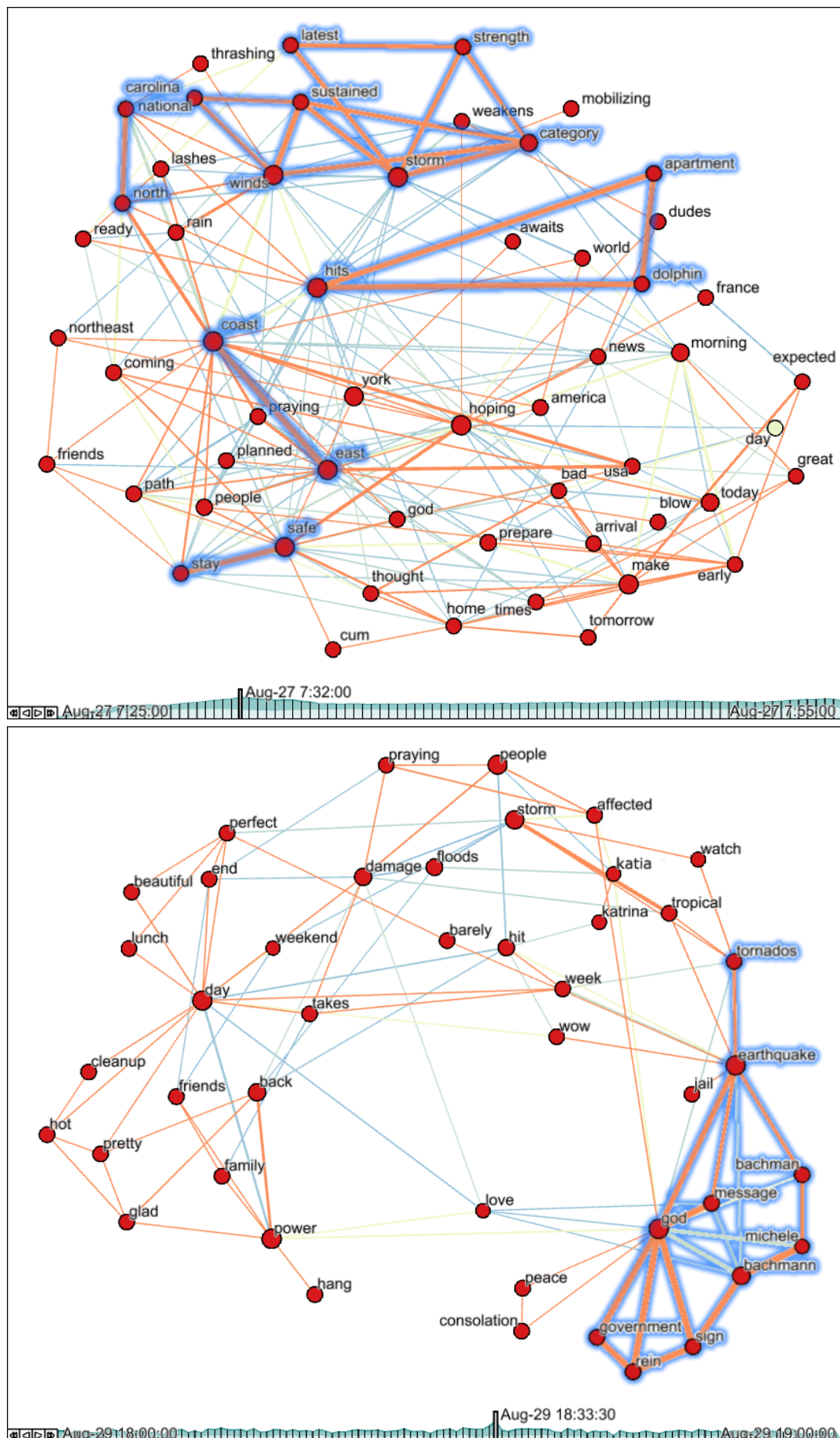


Figure 12.10: Additional results of the DoI function previously defined in Figure 12.9 for two time points: 27-AUG-2011 (top) and 29-AUG-2011 (bottom).