

Additional Materials for “Automatic Summarization of Events From Social Media”

Freddy Chong Tat Chua*

Living Analytics Research Centre
Singapore Management University
80 Stamford Road, Singapore
freddy.chua.2009@smu.edu.sg

Sitaram Asur

Social Computing Lab
Hewlett Packard Research Labs
Palo Alto, California, USA
sitaram.asur@hp.com

Case Study

We show the summaries we presented to our mturkers for the “Facebook IPO” event in Table 1 and readers of our paper may judge which summaries give the best results. From Table 1, we observe that the LDA summary does not contain the tweet about the co-founder renouncing his citizenship and more importantly, does not feature the aftermath of the Facebook IPO event. The DTM summary shows that the co-founder renounced his citizenship but does not describe much about the aftermath. The GDTM summary features events ranging from April to the end of June, and shows a broad coverage of facts including the co-founder renouncing his citizenship and the negative aftermath of Facebook IPO.

*The work was completed when the author visited HPLabs in the summer of 2012.
Copyright © 2013, Association for the Advancement of Artificial Intelligence (www.aaai.org). All rights reserved.

Table 1: List of summaries from the three models

Summary from LDA	
As IPO Approaches, Facebook Addresses Weaknesses @1Mby1M - http://t.co/Rpj4N4Uj	April 10, 2012
RT @benparr: May 18 Is the Facebook IPO - http://t.co/wVp7Tk4T	May 1, 2012
Now Mark Zuckerberg Is Unlikely To Be On The Facebook IPO Roadshow http://t.co/0ekW3jK8 via @newspin	May 5, 2012
Facebook IPO Roadshow http://t.co/Hn0Lf1IS	May 9, 2012
Facebook IPO prices at \$38 a share. #FacebookIPO	May 17, 2012
@goldenashby had to get that out before Facebook IPO day I'm sure!	May 18, 2012
Facebook Goes Public With Initial Public Offering on NASDAQ http://t.co/VJgQCLKb	May 18, 2012
Getting all my Facebook IPO news on Twitter	May 18, 2012
Summary from DTM	
Facebook IPO on for May 18	May 2, 2012
Facebook co-founder Saverin renounces U.S. citizenship ahead of IPO http://t.co/71M3nbdz	May 11, 2012
Social media shares down ahead of Facebook IPO http://t.co/FsegWbch	May 17, 2012
facebook announces IPO price is 38	May 17, 2012
Not sure I agree, but it sure is fun to cover RT @jbruin: FB IPO day is better than Christmas	May 18, 2012
Facebook Goes Public With Initial Public Offering on NASDAQ http://t.co/VJgQCLKb	May 18, 2012
Mark Zuckerberg Made out Nicely in the Facebook IPO http://t.co/Dhu4xWBV #business #money	May 25, 2012
RT @FBWatch: Prices of Facebook Stock Since Long-Awaited IPO http://t.co/bS5Gukjs	June 5, 2012
Summary from GDTM	
Facebook reportedly looking at May 17 for IPO http://t.co/J69QN2FF	April 19, 2012
Facebook sets \$28-35 price range for IPO http://t.co/y65BIVmH	May 3, 2012
Facebook Co-Founder Saverin Gives Up U.S. Citizenship Before IPO - http://t.co/66hr6VbW @snipit	May 11, 2012
Facebook raises IPO price as offering nears http://t.co/kqciHFtW via @newspin	May 16, 2012
Woot it's facebook ipo day!	May 18, 2012
EXCLUSIVE: Here's The Inside Story Of What Happened On The Facebook IPO http://t.co/6ukUmucS via @businessinsider	May 23, 2012
As IPO Approaches, Facebook Addresses Weaknesses @1Mby1M - http://t.co/gd5Xrdgt	May 28, 2012
NASDAQ CEO blames CIO over Facebook IPO http://t.co/5fd4139E via @newspin	June 28, 2012