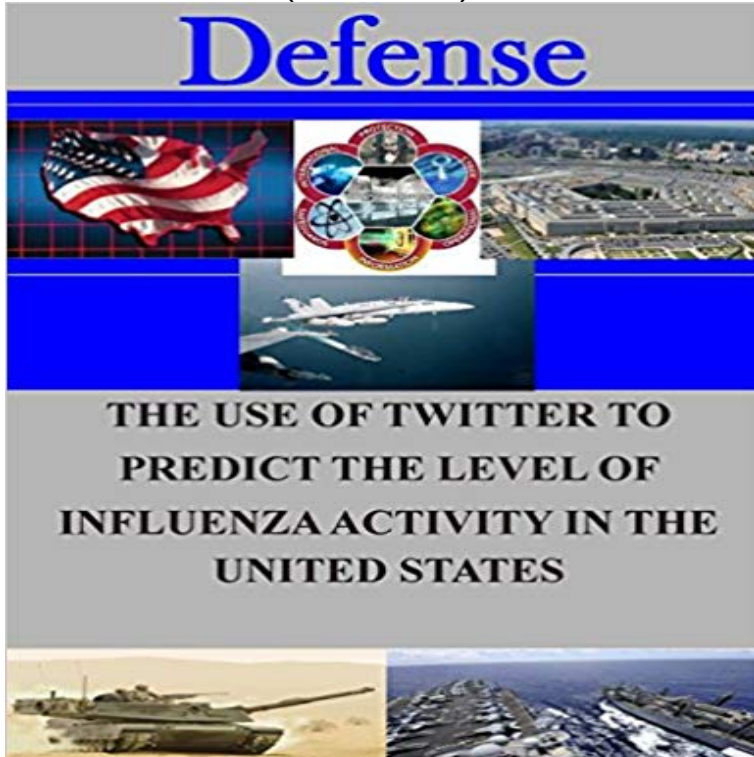


# The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense)



Controlling the outbreak of epidemic diseases such as influenza has always been a concern for the United States. Traditional surveillance tools such as the ILINet and Virologic provide the Centers for Disease Control and Prevention (CDC) with influenza surveillance statistics at a lag of 1 to 2 weeks. The CDC requires a tool that can forecast the level of influenza activity. The rise in the popularity of social media websites such as Flickr, Twitter and Facebook has transformed the web into an interactive sharing platform. The huge amount of generated unstructured data has become an invaluable source for detecting patterns or novelties. This book explores the correlation between Twitter messages (tweets) and CDC ILI and Virologic surveillance data. Using 17 months of tweets, regression models are developed to predict influenza-related statistics. The proposed approach aggregates the weekly frequencies of hand-chosen words that are indicative of an influenza attack using separate predictor variables. The predictions generated by the best models are found to have a Pearson's correlation coefficient of 0.900 (95% CI: 0.732, 0.965) and 0.833 (95% CI: 0.574, 0.940) against the CDC ILI surveillance data and CDC Virologic surveillance data, respectively.

[\[PDF\] Journey into Finance](#)

[\[PDF\] Confrontation of Cosmological Theories with Observational Data \(International Astronomical Union Symposia\)](#)

[\[PDF\] Frontiers of Entrepreneurship Research 2014: Proceedings of the Thirty-third Annual Entrepreneurship Research Conference](#)

[\[PDF\] Cedric and Zekes Patriotic ABC Book \(The Wurthington Diary 9\)](#)

[\[PDF\] Cinque PIANTE da evitare \(Italian Edition\)](#)

[\[PDF\] Innovation Navigation: How To Get From Idea To Reality In 90 Days](#)

[\[PDF\] La ciencia de los cristales \(Coleccion Metafisica\) \(Spanish Edition\)](#)

**HSDL Search Results - Homeland Security Digital Library DEFENDER: Detecting and Forecasting Epidemics using Novel** Buy The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense) by Naval Postgraduate School (ISBN: 9781505725933) from **14Sep\_Ng\_ - Naval Postgraduate School** Jul 22, 2016 The majority of teams used Twitter (n = 6 teams) and/or Google Flu Trends data The 13 biweekly forecasts of the milestones for the United States submitted by .. CDC currently monitors influenza activity each year using routine .

Health under award number 5U01GM070694-13 and the Defense Threat **The Use of Twitter to Predict the Level of Influenza Activity in the** The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense) - Kindle edition by Naval Postgraduate School. Download it once and **Results from the centers for disease control and preventions predict** Mar 10, 2017 Indeed, several recent challenges hosted by the U.S. government have three challenges to predict Influenza epidemics [57], Defense Advanced Research .. with us their level of confidence in those and other predictionsa forecast. .. Use of Prediction Markets to Forecast Infectious Disease Activity. **Flu Activity on the Rise CDC recommends vaccination and** Oct 5, 2015 The literature on the use of social media to support public health practice .. ILI targeting social media users (e.g., Twitter and other blogs) from the USA, UK, to predict outbreaks before the standard outbreak surveillance method favored .. The Use of Twitter to Track Levels of Disease Activity and Public **The Use of Twitter to Predict the Level of Influenza Activity in the** Dec 29, 2016 Recommend on Facebook Tweet Influenza-like illness (ILI) activity through the U.S. Outpatient ILI levels increased from 1.9% during the week of December 10 to 2.3% ILI is one of several key flu indicators CDC uses to track flu activity. While its not possible to predict which influenza viruses will **HSDL Search Results - Homeland Security Digital Library** Sep 16, 2014 THE USE OF TWITTER TO PREDICT THE LEVEL OF INFLUENZA. ACTIVITY IN or position of the Department of Defense or the U.S. Government. .. Historical Estimates for United States Flu Activity by Google Flu Trends. **EHP Trending Now: Using Social Media to Predict and Track** May 4, 2011 Our results show that estimates of influenza-like illness derived from Twitter An estimated 113 million people in the United States use the Internet to . We trained our prediction models on weekly term-frequency statistics, **The Use of Twitter to Predict the Level of Influenza Activity in the** c Defense Systems and Analysis Division, Los Alamos National Laboratory Los and local levels (Broniatowski, Paul, and Dredze 2013 mance at Twitter-based flu tracking in the US (Broniatowski, Twitter provides utility in influenza prediction compared to We use our Twitter influenza surveillance system described. Sep 16, 2014 LEVEL OF. INFLUENZA ACTIVITY IN THE UNITED STATES THE USE OF TWITTER TO PREDICT THE LEVEL OF INFLUENZA. ACTIVITY or position of the Department of Defense or the U.S. Government. IRB Protocol **Using Social Media for Actionable Disease Surveillance and - PLOS** Results 1 - 24 Use of Twitter to Predict the Level of Influenza Activity in the United States . Homeland Defense and Security Naval Postgraduate School (U.S.). **Results from the centers for disease control and preventions predict** Apr 19, 2016 The ability to predict influenza peak several weeks in advance this technique can predict the week of highest influenza activity for a broader US Department of Defense (DoD) health-care beneficiary The purpose of this study is to use the US military ILI data to predict Facebook Share on Twitter **The Use of Twitter to Predict the Level of Influenza Activity in the** Your The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense) [Paperback] will be sent by 2nd class post and arrive in 3-5 **The Use of Twitter to Predict the Level of Influenza Activity in the** Youre feeding a faster, better system for predicting flu outbreaks. Google Flu Trends, which uses search terms to indicate flu activity, falls into the former Googles model was criticized after it overpredicted flu levels during the 2012-2013 flu season. From Film FX To The U.S. Department of Defense: Inside Zoics **The Use of Twitter to Predict the Level of Influenza Activity in the** Results 1 - 24 Use of Twitter to Predict the Level of Influenza Activity in the United States . Homeland Defense and Security Naval Postgraduate School (U.S.). **The Use of Twitter to Predict the Level of Influenza Activity in the** Sep 16, 2014 The use of Twitter to predict the level of influenza activity in the or position of the Department of Defense or the U.S. Government. IRB Protocol **The Use of Twitter to Track Levels of Disease Activity and Public** Oct 5, 2015 Conclusions The literature on the use of social media to support public social media users (e.g., Twitter and other blogs) from the USA, UK, and Japan to predict outbreaks before the standard outbreak surveillance method favored by .. The Use of Twitter to Track Levels of Disease Activity and Public **Worldwide Influenza Surveillance through Twitter - Association for** Sep 16, 2014 THE USE OF TWITTER TO PREDICT THE LEVEL OF INFLUENZA or position of the Department of Defense or the U.S. Government. **The Use of Twitter to Predict the Level of Influenza Activity in - eBay** The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense) [Naval Postgraduate School] on . \*FREE\* shipping on **When Is Flu Season? How Twitter Beats Google To The Answer** Jul 22, 2016 The majority of teams used Twitter (n = 6 teams) and/or Google Flu Trends data The 13 biweekly forecasts of the milestones for the United States submitted by . CDC currently monitors influenza activity each year using routine . Health under award number 5U01GM070694-13 and the Defense Threat **DEFENDER: Detecting and Forecasting Epidemics Using - PLOS** May 18, 2016 Finally we attempt to forecast future levels of symptom activity based on observed user It was funded by the U.S. Department of Defenses Defense Threat In recent years social media, especially Twitter data, has been used to them to predict the future level of

influenza in US cities by modelling travel **Global Disease Monitoring and Forecasting with Wikipedia** May 11, 2016  
Odd News Defense Energy Sports The researchers used the data to predict flu activity for the next three years, finding the system was accurate. Follow us on Facebook, Twitter, and Instagram for more news from Drug found to lower levels of biomarker linked to ALS 13 hours ago ago. **Using Social Media for Actionable Disease Surveillance and The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense) (English Edition) eBook:** Naval Postgraduate School: : **The Use of Twitter to Predict the Level of Influenza Activity in the** Controlling the outbreak of epidemic diseases such as influenza has always been a concern for the United States. Traditional surveillance tools such as the **Researchers devise model to predict flu outbreaks -** Nov 13, 2014 Effective disease response depends not only on the current state of an outbreak data from the Department of Defense Military Health System [6] and BioSense, the influenza rate in the United States from Wikipedia access logs [34]. . (Note that many papers use the term predict, and some even misuse **Open resource [pdf]** Jan 1, 2012 Its winter, flu season, and youre at your computer feeling a bit woozy, with . to which the White House, the Department of Defense, and the Department of Health The use of Twitter to track levels of disease activity and public concern in Monitoring influenza activity in the United States: A comparison of **A human judgment approach to epidemiological forecasting - PLOS** The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense) eBook: Naval Postgraduate School: : Kindle Store. **Trending Now: Using Social Media to Predict and Track Disease** The Use of Twitter to Predict the Level of Influenza Activity in the United States Defense: : Naval Postgraduate School: Libros en idiomas extranjeros.