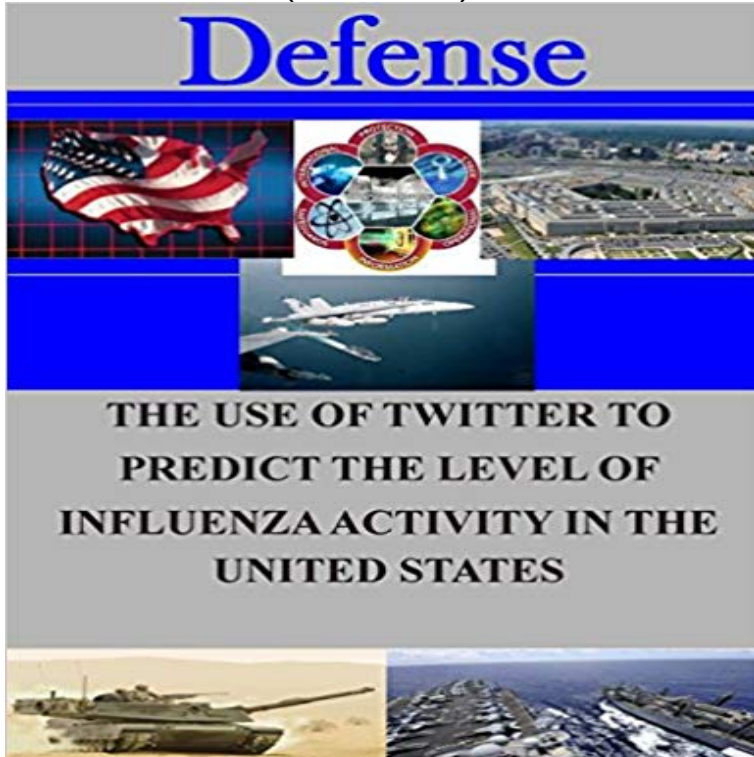


The Use of Twitter to Predict the Level of Influenza Activity in the United States (Defense)



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.

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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 . 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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. 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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.