

Fake News on Twitter



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Introduction

Online Social Media Security Landscape is Changing

 Account Hacking Malware

- Spam
- Financial

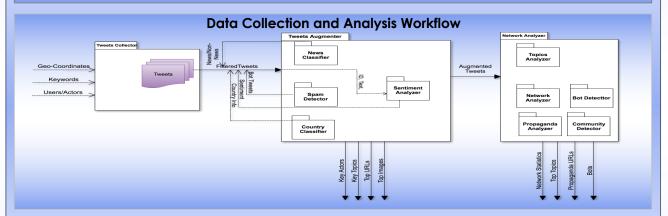
Civic Discourse

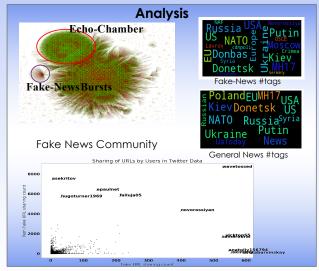
Deceive People

- · We collected Tweets data in three different ways
 - 1. Search terms based Tweets collection
 - 2. Snowball search around key users
 - 3. Geo-Location search covering the North Sea region
- Tweets from Ukraine, Crimea, Euromaiden and NATO searches
- Dataset includes over 3 million tweets i.e. around 100 Gb data

We conducted a Study to Understand the use of Twitter in Spreading of Fake-News in the North Sea Region

- Filtered Tweets to find messages sharing URL links
- Over 50 thousand tweets are sharing possible fake-news articles
- We find patterns in data including key-entities, topics and trends
- We used dense sub-graph extraction to find botnets





Results & Discussion



@mentions in Tweets sharing fake news Vs @mentions in Tweets sharing General News

Main Takeaways

- · A complex data collection strategy is needed to identify the spread of Fake-News
- The users spreading fake-news like to mention more to get attention, but use common hashtags.
- Fake-News URLs are more likely to be shared than general-
- Bots are often used to speed-up diffusion

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