Privacy and Security in Online Social Media

Course on NPTEL

Week 1.3

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jkrums

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Social media turns a blessing: Avani's missing photo goes viral, and she gets her mother back in 20 minutes

The photo showed the girl holding a lady railway police official's hand.





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A teenage girl was found dead just days after posting a haunting message online about the cyber bullying she was suffering.

Britney Mazzoncini has been described by her grieving grandmother as a 'beautiful' girl who was 'loved by all'.



Arsonists set fire to eastern European shop in Norwich » The 16-year-old died after she was rushed to hospital from her home in Glasgow, **the Daily Record reported**.

She had been tormented on social media by bullies, and complained about the abuse in a Facebook post days before her death.

She wrote: 'Starting to get sick of wee lassies calling me a riddy and this and that.

'As I've said, if you have a problem with me then delete me and if you're being cheeky then you will just be blocked.

Role of OSN in global events: UK Riots

theguardian

UK riots 'made worse' by rolling news, BBM, Twitter and Facebook

Government panel says disorder was fuelled by TV and social media but warns against closing social networks during unrest

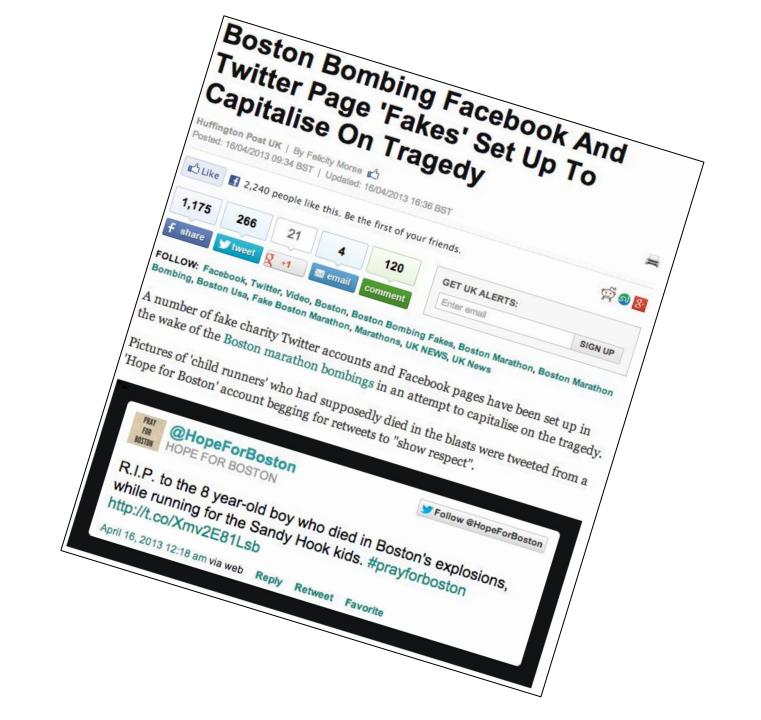
Josh Halliday guardian.co.uk, Wednesday 28 March 2012 11.16 BST



Viral violence: Facebook and other social media blamed for inciting unrest during the UK riots. Photograph: Matthew













Hurricane Sandy: Fake Images

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Other implications

MI6 chief blows his cover as wife's Facebook account reveals family holidays, showbiz friends and links to David Irving

By JASON LEWIS
Last updated at 7:14 PM on 5th July 2009

Other implications



Other implications

Using too much Facebook and Twitter may cost you your job

Sun, Oct 10 10:50 AM

London, Oct 10 (ANI): Government and council employees in the UK using social networking sites at work or posting inappropriate comments from home are likely to face serious action, which includes being sacked.

Police censured eight employees last year after they found using police computers to chat with their friends online.

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Takeaways Week 1

- Growth of Online Social Media
- 4 / 5 Vs of OSM
- Different OSMs
- Use of OSM
 - Positive
 - Negative

Tutorials online

- Linux
- Python

https://www.facebook.com/PreCog.III



http://precog.iiitd.edu.in/

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is a group of researchers who study, analyze, and build different aspects of social systems (e.g. social web systems like Twitter, Facebook), including their security and privacy. By understanding

and measuring complex networks, we try and build solutions for social good. Our work primarily derives from Data Science, Computational Social Science, Social Computing, Machine Learning, and Natural Language Processing. What's New!



New! July, 2016: Our paper Hiding in Plain Sight: Characterizing and Detecting Malicious Facebook Pages accepted at IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2016. Authors: Prateek Dewan, Shrey Bagroy and PK.

New! June, 2016: PK's Keynote Address on Online Social Media: Opportunities, Challenges, and Pitfalls

New! June, 2016: Our paper Social Media for Safety: Characterizing Online Interactions between Citizens and Police accepted at 30th British Human Computer Interaction Conference (BHCI) 2016. Authors: Niharika Sachdeva, PK and Munmun De Choudhury.

Hiding in Plain Sight: Characterizing and Detecting Malicious Facebook Pages

Prateck Dewan, Shrey Bagroy, Ponnurangam Kumaraguru Independent of Information Technology, Delhi (IIIT-D) manapassina institute or introducioni rectinories, is that the state of Cybersecurity Education and Research Centre (CERC), IIIT-Delhi Cybersecurity Educati Email: {prateckd,shrey14099,pk}@iiitd.ac.in

Abstract—Facebook is the worls's largest Online Social Net-networks, Problems in 1 billion users. Like most other social entities who are the platform of the problems of the social entities who are the platform of the problems of the problems of this paper, with the platform of the problems of the problems engage in spreading ULLs pointing to malicious domains. We result the score and definition of what is decreated as "smallcious" In this paper, we identify, and characterize Farchook pages that cagging spreading URL, politing to malicious content, cagging spreading URL, politing to malicious formation, and the cope and defaulte politing to malicious for the cope and defaulte politing to malicious for the cope and defaulte politing content, admit politic manufactured, in identify of politic politic

presence of malicious pages on Facebook, set up intentionally to spread fraudulent claims, scams, and other types of malito spread transment erating, scaling, and outer types of mut-cious content. In addition to scams and fake information, researchers have also identified and studied the spread of researchers nave ages supplied and southers the options of numers on Facebook [8]. During events like earthquakes, rumors on OSNs have been observed to contribute to chaos and insecurity in the local population [14]. It is thus, crucial to identify and control the spread of untrustworthy and fake information in order to minimize adverse real world impact.

In this paper, we identify and characterize a set of 627 in this paper, we stormery and entaracterize a set of 02.7 Facebook pages that published one or more malicious URLs raceous puges that postussed one or name manages or in their most recent 100 posts. We focus our analysis on pages which spread untrustworthy information, hate speech, nudity, misleading claims, etc., that are deemed as malicious by the community standards [7] and "Page Spam" definitions [6] established by Facebook. In an attempt to automate the process estactistics by successor, in an anomaly to automate the process of identifying malicious Facebook pages, we train and evaluate on mentarying management recovers frages, we man man evaluate multiple supervised learning models based on bag-of-words

Thank you

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