Research Spotlight Forum

8.6.19 Cybersecurity

Twitter Bots: Detection and Analysis

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Bots in Social Media

- Bots are automated users in social media
- Bots are useful to…
  - Gain human followers to spread information directly, targeted advertisement
  - Trick ranking and recommendation systems by making a topic trending or a product look popular
  - Work as honeypots to recruit for underground organizations
  - Compete with campaigns by popularizing negative sentiment

Bots in Twitter

15% twitter accounts (300+M Users) are

Our Objective: Detect and Understand Bots

UNM Research in this area

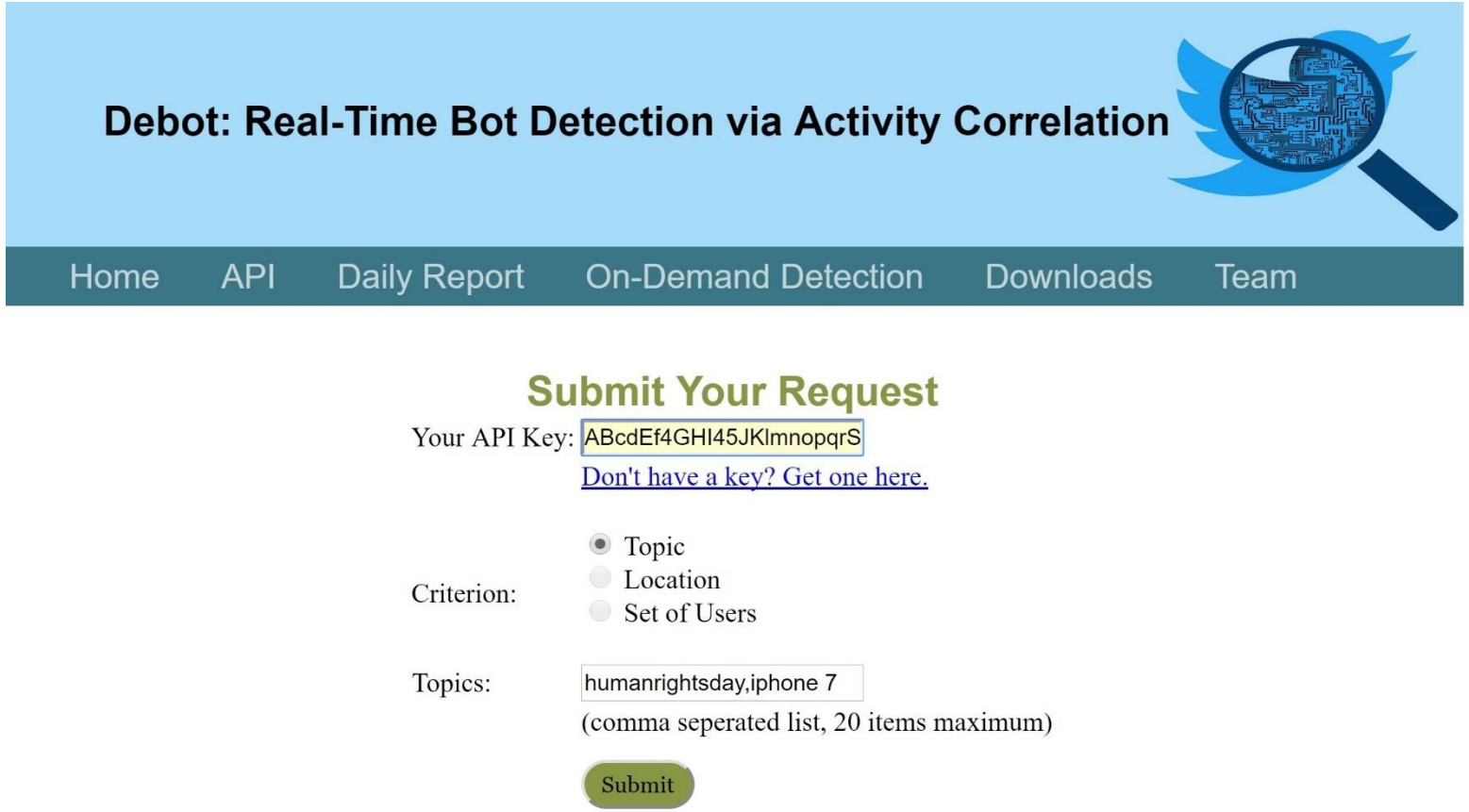
Research Projects

- Text-based analytics - Mining comments on live streams for real-time blocking; Analyze and categorize suspended accounts
- Simulation - Agent-based models to simulate events in social platforms
- Network sampler – accurate samples of social networks

Capabilities

- Parallel data collector to receive few thousand tweets per second.
- Over a billion tweets stored in our database collected since 2015.
- Passive detection and active exploration techniques.
- On-demand system to detect bots as a service under a set of keywords.
- Accurately simulate/sample twitter follower-friend network.

www.debot.info



http://www.cs.unm.edu/~chavoshi/debot/on_demand_result.php?key=S1GA7SLnmoh51b5nQiI39YaMQlzmMkxuc3WaLxnZ&req_id=6