

Twitter Pluviometer

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Overview

1.



Clouds

Cloud formation
and precipitation

2.



Rain impact

Rain affects the city
and basins

3.



Hydrological Impacts

The rain causes
hydrological
impacts

4.



Blocked Road

Roads blocked due
to accumulation of
water on site

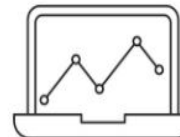
5.



Data Base

Recording the
start and end time
of the interdiction
of roads in a
database

6.



Data processing

Data collection,
processing and
analysis

Motivation

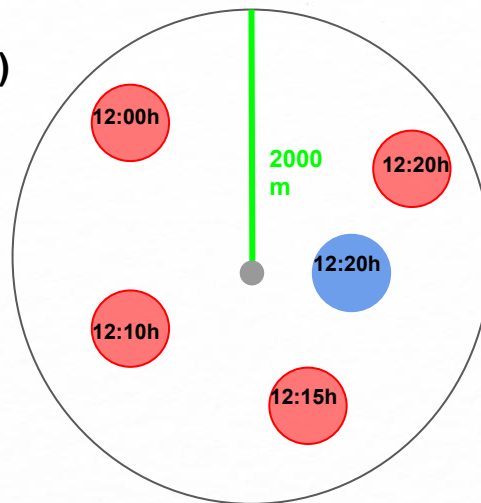
- ❖ New solutions to anticipate alerts of flood;
- ❖ The increasing incidence of flooding cases due to climate change;

Literature

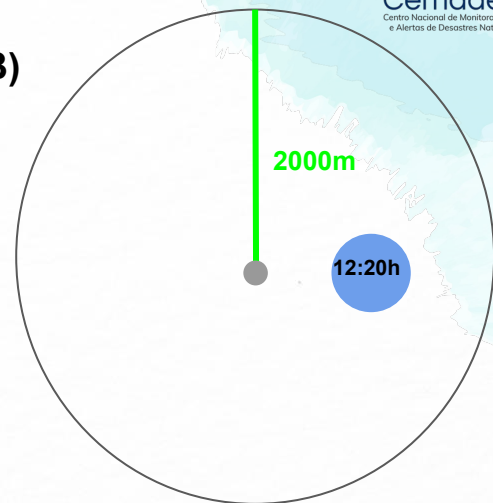
- ❖ Determining flooded areas using crowd sensing data and weather radar precipitation: a case study in Brazil. HORITA, Flávio; BRESSIANI, Danielle; PALMA, Gilca; ALBUQUERQUE, João.P. 2018

Materials and methods

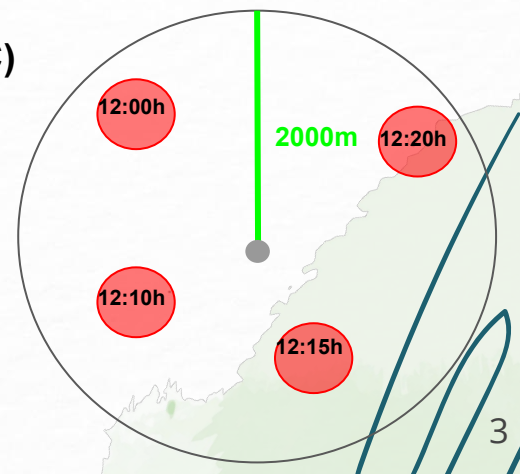
A)



B)



C)



Legend

- Radius
- Posts
- Flooding spots
- Raingauge

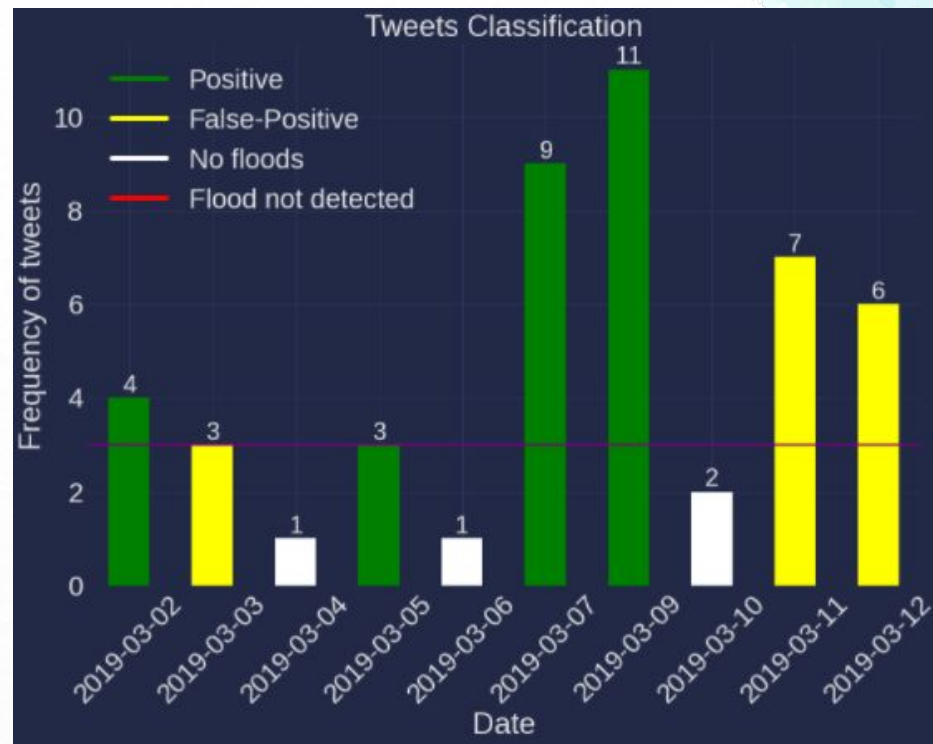
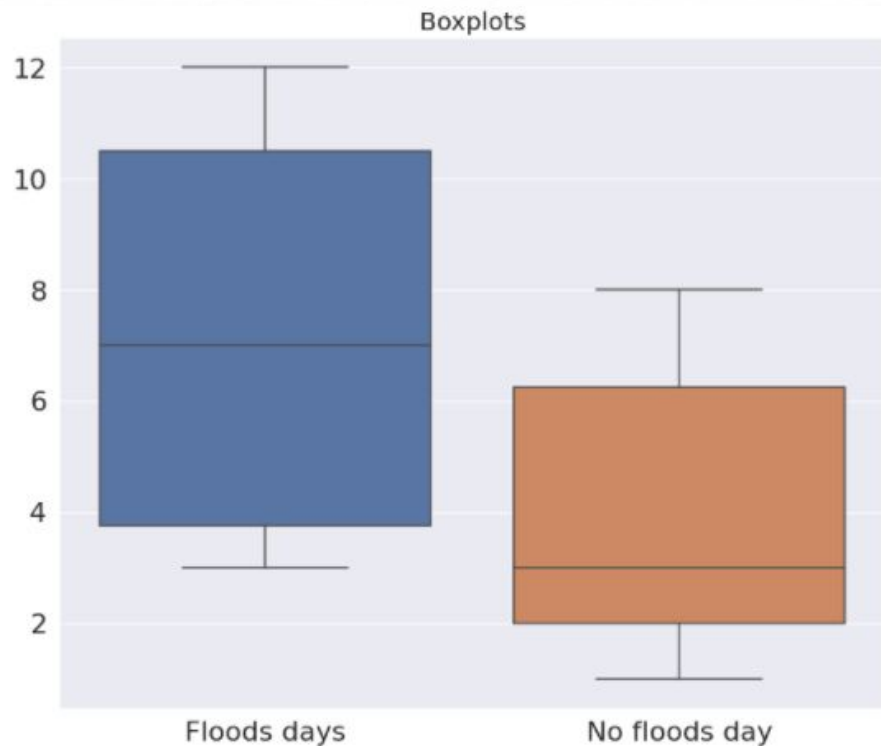
This work

Research Topic: Twitter rain gauge, analyze the relation between rainfall data and tweets for flood forecasting

Objective: Process and analyze rainfall and twitter data to predict floods

Scientific hypothesis: It is possible to find a possible relation between crowdsensing and rainfall data to structure a way to detect floods

Results



THANKS



Do you have any questions?

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