

Problem Statement

- Create a tool to aid with disaster management

Data Sources

- English News Sources
- Chinese News Sources

Plan

- Create Chinese Dictionary for Flooding
- Extend Flood Algorithm to work for Chinese Data Sources
- Extract 5W1H content for Flood Articles
- Create visualisations of Flood Articles



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THE BRIEF

<https://github.com/wukan2014/disaster>

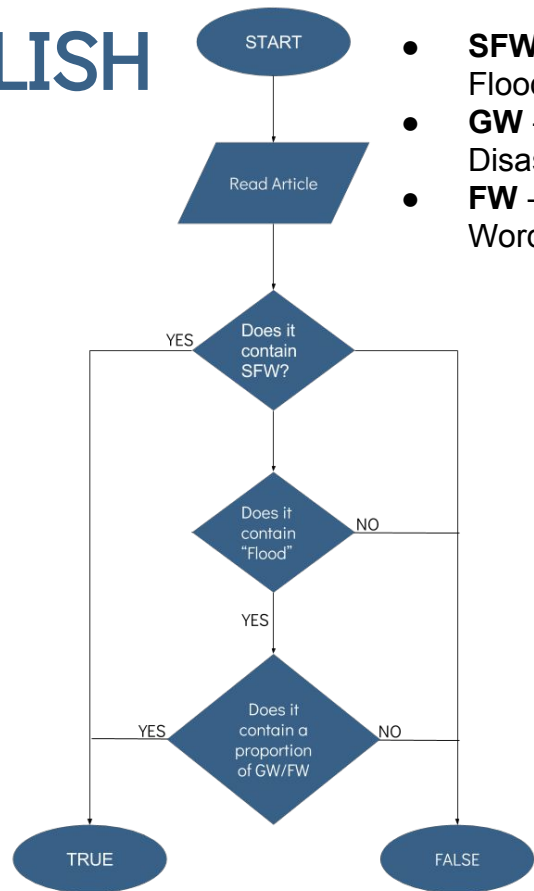
UNIVERSITY OF
Southampton

Web Science
DTC



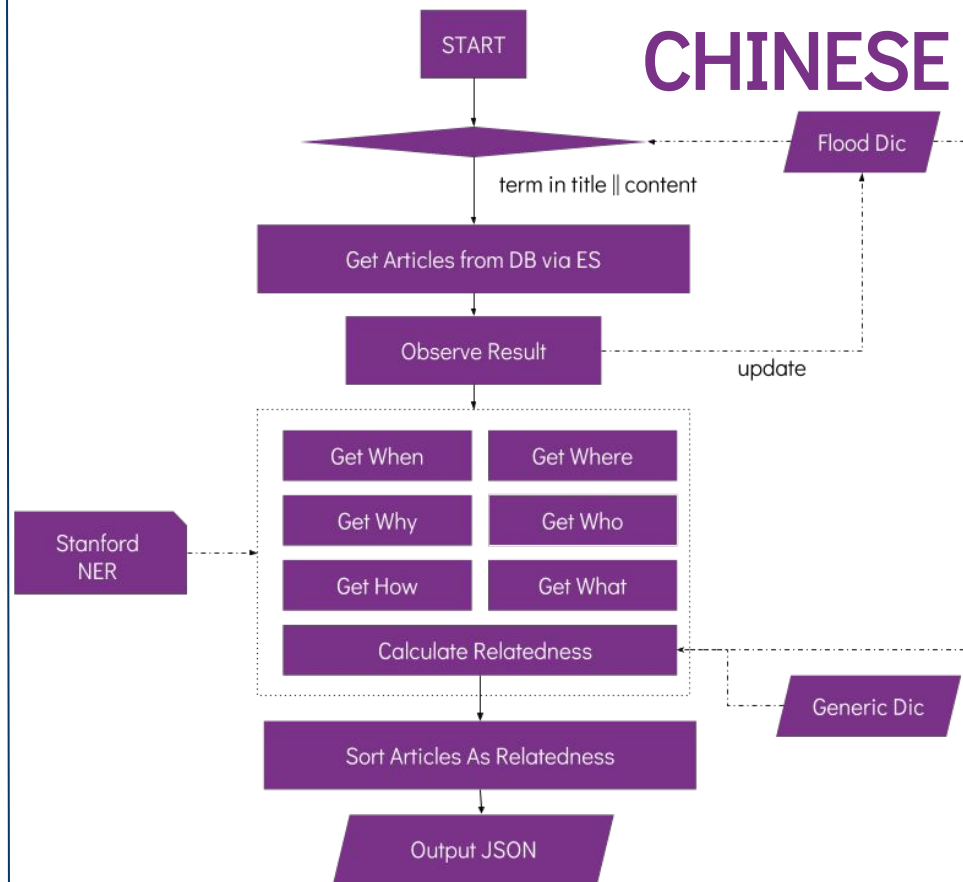
清華大學
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ENGLISH



- **SFW** - Specific Flooding Words
- **GW** - Generic Disaster Words
- **FW** - Flooding Words

CHINESE



THE ALGORITHM

<https://github.com/wukan2014/disaster>

Main Contributions/Achievements

- Flood Dictionary & Algorithm (Cross Languages)
- Extendable Toolkit to generate 5W1H for Floods
- Prototype Dashboard (Cross Language)
- Visualisations to improve accuracy
- WE HAD FUN!

Problems

- NLP methods can differ across languages
- Eliciting nuances of terms in everyday use in both languages
- Different structure and volume of articles

Future Development

- Further accuracy testing of different thresholds for algorithm (using visualisations for aid)
- Extend Algorithm to extract more disasters / all languages
- Extend Dashboard Interaction
- Complete and enhance 5W1H

CONCLUSIONS

<https://github.com/wukan2014/disaster>