
Monde ϕ IA

— Détection d'événements Euro
2016 —

Team

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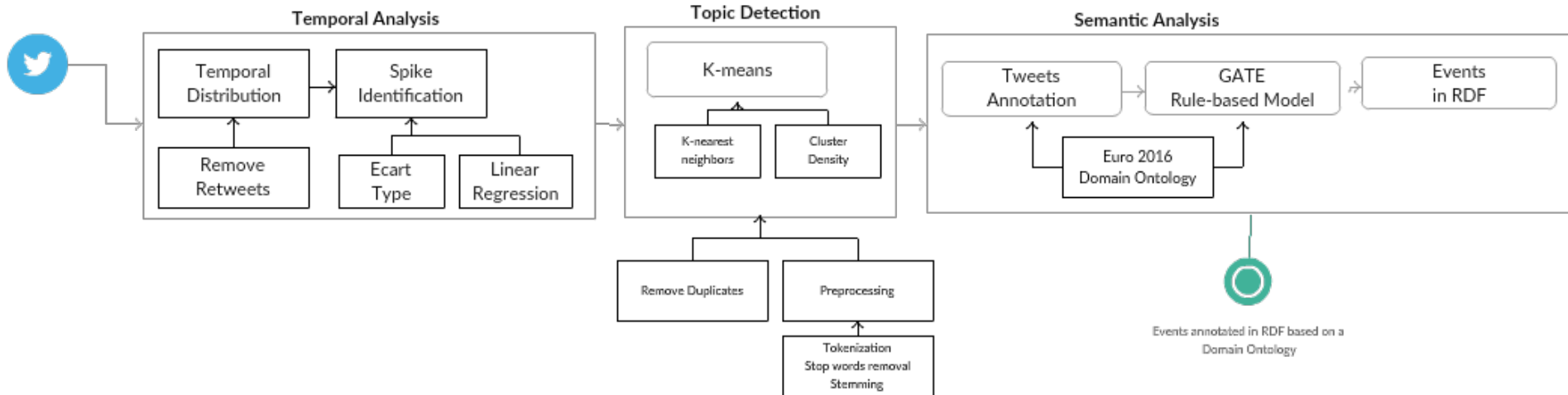
→ Arnaud (Mondeca)

→ Julien (Eurecom)

Our Approach

- Temporal Analysis
- Topic Detection relevant to the Euro 2016
- Semantic Event Representation
- Semantic Annotation and Rule-based analysis
- Indexation and visualization

Our Approach - Diagram





Filtrage des Tweets

Formatage du flux

Extraction
Détection

Content
Annotation

Détection des
joueurs, actions du
match

Pose de metadata

Indexation

Sortie Annotation et
des tags détectés



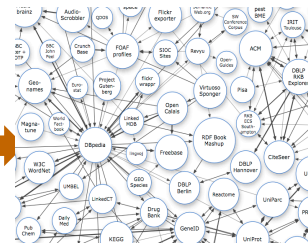
elasticsearch

Visualisatio
n



Ontologie des évènements et
référentiels

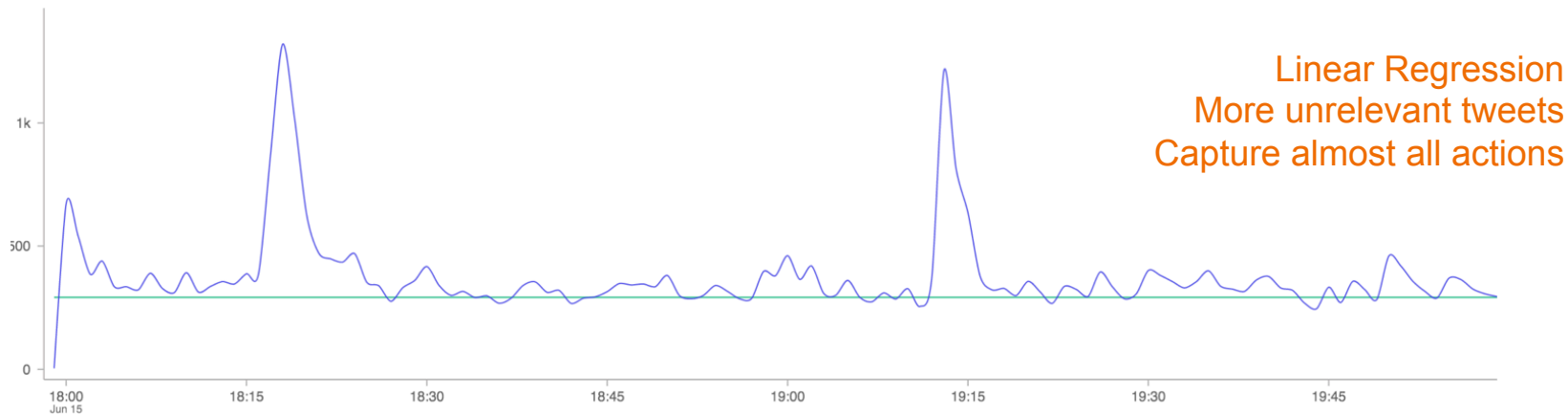
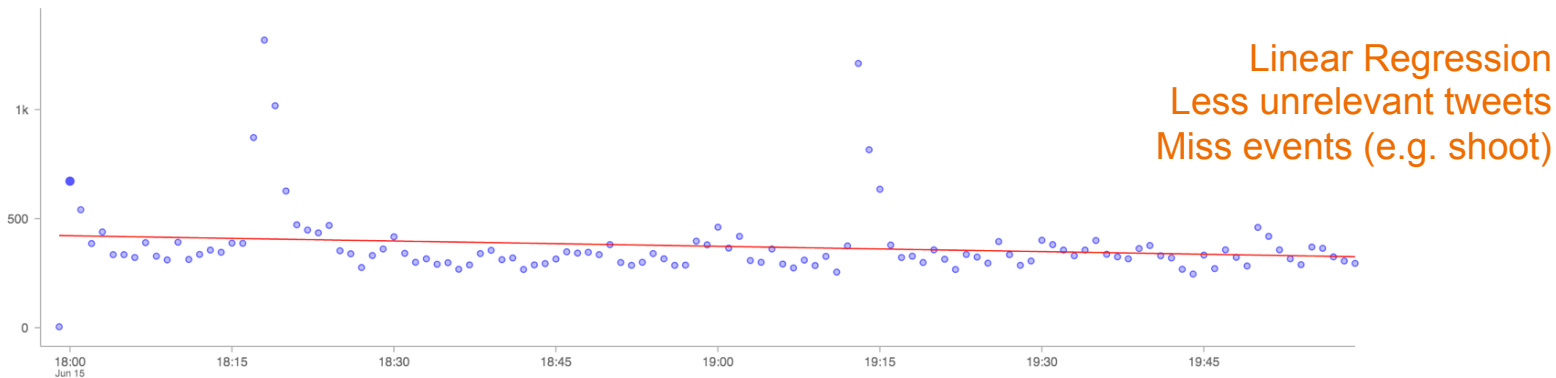
Alimente les composants



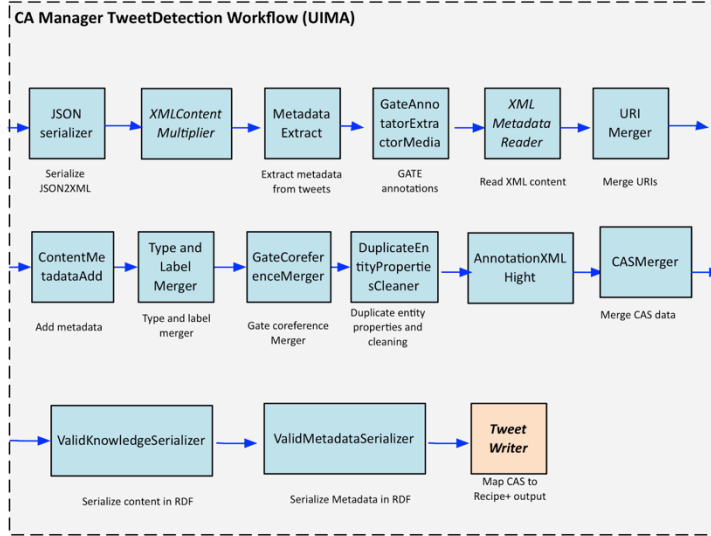
Temporal Analysis and Spike Detection

- ★ Retrospective analyse of a collection of tweets
- ★ Temporal distribution of tweets based on a fixed time-window
- ★ Ignore time-window with low frequency
 - Ecart Type
 - Linear Regression

Spikes Detection (Roumanie VS Switzerland)



Semantic Annotation





Demo



Link Visualization Demo

→ <http://testl.si.mondeca.com/kibana/>

Useful Resources

- Shared Domain ontology: <http://goo.gl/XBfQHc> (in fr/en; some in ar)
- Shared External datasets in RDF:
<https://github.com/eamosse/mondephia/tree/master/rdf> (mainly fr/en; some resources in ar)
- Shared Filtered datasets in JSON:
<https://www.dropbox.com/sh/c1kmfht4v39nwc5/AAD5LDO8u47u0mQMFrshvINga?dl=0>
- More on our Github: <https://github.com/eamosse/mondephia/>

Conclusion

More can be done to write rules on matching

→ We didn't have time to finish our initial plan

→ Deep identification of actions in Tweets