Webis Talks Flash 2017
12.01.2017

Clickbait Detection
GPU Based Text-Analytics
This is Offensive Language
Essay Scoring
Argument Unit Segmentation
Web Resource for Argument Mining
Vandalism in Wikipedia
Argumentation Strategies
2017 ACM DEBS Grand Challenge
A Large-scale Analysis of the Mnemonic Password Advice
Clickbait Detection
by Kristof Komlossy, Putrasandy Dana Riawan  Sebastian Schuster

Why you should ALWAYS drink red wine when you smoke, according to medical report

This Teen Blew Everyone Out Of The Water With Her Insane Prom Entrance
Definition

- A headline is considered as clickbait if its main purpose is to make the user click on the link by unnecessarily omitting crucial information, creating a curiosity gap.
- A clickbait is also present if there is an exaggerating headline which has nothing to do with the content.
Reasons

- Increase of clickbait over the last few years
- Not much existing research (yet)

Problems

- Lowers the perception and standards of journalism
- Trains reader to skim over articles
Solution

- Journalists could abandon practice
- Readers could stop rewarding clickbait
Solution

- Journalists could abandon practice
- Readers could stop rewarding clickbait
- Give users a tool to detect clickbait content (maybe hide it)
Process

• Searched for concise clickbait definition

• Archived tweets [more than 250,000] and related media of news publishers
  → Scored after degree of clickbait by Amazon Mechanical Turk workers

• Use certain features of the data to train the classifiers

• Write browser plugin
Instruction

We consider a headline as clickbait if its main purpose is to make the user click on the link by unnecessarily omitting the main information, creating a curiosity gap. It is also clickbait if there is an exaggerating headline which has nothing to do with the content.

Examples of clickbait:
- "The secrets behind 'Something Rotten's' biggest number": **Strong clickbait**
- "China's fishermen explain why they think the sea is theirs": **Medium clickbait**
- "Catching up with Manon Rhéaume, who inspired many during her historic appearances as a @TBLightning goalie in the 90s": **Weak clickbait**
- "Gronk went bald for the kids! The Patriots tight end shaved his head for a cancer charity": **Not clickbait**

Based on those definitions, decide how strong of a clickbait the headlines below are.

Polar bears 'have started eating dolphins due to climate change' [Link]

'Spy from suburbia': Pensioner's secret life revealed after bomb scare [Link]
<table>
<thead>
<tr>
<th>Created At</th>
<th>ID</th>
<th>Tweet</th>
<th>Media</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov 29, 2016, 12:57 p.m.</td>
<td>803568513583616000</td>
<td>COMING UP ON @GMA: Tennessee wildfires burn 100 homes, force thousands to flee. <a href="https://t.co/52M4kOvX5r">Link</a></td>
<td>expand</td>
<td>abc</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:56 p.m.</td>
<td>803568213321617408</td>
<td>In a remote Tibetan valley, Buddhists are being forced out of the area. <a href="https://t.co/KPG2SSL4Y">Link</a></td>
<td>expand</td>
<td>nytimesworld</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:55 p.m.</td>
<td>803568033172221952</td>
<td>The Edge of Seventeen review – Hailee Steinfeld has a coming-out ball <a href="https://t.co/3sbJwguSSZ">Link</a></td>
<td>expand</td>
<td>guardian</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:54 p.m.</td>
<td>803567817798930432</td>
<td>Why have streets in Sudan’s capital been deserted? <a href="https://t.co/wgDAFMMLJe">Link</a></td>
<td>expand</td>
<td>bbcworld</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:54 p.m.</td>
<td>80356775084380353</td>
<td>UPDATE: &quot;May God be with our athletes,&quot; Brazilian soccer team says after players are among 76 killed in jet crash... <a href="https://t.co/CpABKOC1M">Link</a></td>
<td>expand</td>
<td>nbcnews</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:52 p.m.</td>
<td>80356719043573504</td>
<td>Samsung tries to appease investors but delays big changes <a href="https://t.co/RSUVMM7M">Link</a></td>
<td>expand</td>
<td>WSJ</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:51 p.m.</td>
<td>803566931856990208</td>
<td>Moonlight sweeps Gotham awards, with acting honours for Isabelle Huppert and Casey Affleck <a href="https://t.co/BhAypJ3dyg">Link</a></td>
<td>expand</td>
<td>guardian</td>
</tr>
<tr>
<td>Nov 29, 2016, 12:50</td>
<td>803566725090463744</td>
<td>The #DelhiUniversity student bludgeoned his elder sibling to #death with a dumbbell at their flat <a href="https://t.co/TiBGWHHMMB">Link</a></td>
<td>expand</td>
<td>indiatimes</td>
</tr>
</tbody>
</table>
Sources


https://www.buzzfeed.com/stephaniemcneal/people-are-losing-their-minds-over-this-teens-insanely-over
GPU Based Text-Analytics

André Karge
andre.karge@uni-weimar.de

Benedikt S. Vogler
benedikt.vogler@uni-weimar.de
Setup
Three times
• 1,5 TB RAM
• 8x GeForce GTX 1080 (8113MiB)
• 2 Intel Xeon CPU:
• SSDs
Steps

• Install Software
• Health Checks
• Train own Deep Learning Networks
• Improve
Supervised Learning

Cluster

Katze

„Hund“ / „Katze“
geglättet Kosten über Epochen
Convolution

Data → Kernel → convoluted data

subsampling / pooling
„Neural networks are engineering, they are not applied mathematics [...]“

–S. Matthews, review of machine learning book
This is offensive language!!
Stop attacking me

Negin Yaghoubisharif, Masoud Allahyari, Patrick Saad, Christian Paffrath, Philipp Rudloff

Supervisor: Khalid Al-Khatib
Donald J. Trump
@realDonaldTrump
@caaatolysm Little Jon Stewart (?) is a pussy, he would be hopeless in a debate with me!
07:22 am - 11 Mai 2013
(https://twitter.com/realDonaldTrump/status/333089735570493440)
Introduction

Donald J. Trump
@realDonaldTrump
@caaataclysm  Little Jon Stewart(?) Is a pussy, he would be hopeless in a debate with me!
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Donald J. Trump
@realDonaldTrump
Bauhaus-Universität Weimar – WS15/16

@caaataclysm
Little Jon Stewart(?) Is a pussy, he would be hopeless in a debate with me!
07:22 am - 11 Mai 2013

CP
@realCPPP
I heard someone say “All russians are drunk bastards” on the bus today.
11:50 am - 8 January 2017
(made up example 1)
Introduction

Donald J. Trump
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@caaataclysm

Little Jon Stewart(?) is a pussy, he would be hopeless in a debate with me!
07:22 am - 11 May 2013
https://twitter.com/realDonaldTrump/status/333089735570493440

CP
@realCPPP
I heard someone say “All russians are drunk bastards” on the bus today.
11:50 am - 8 January 2017
(made up example 1)

PD
@realPhifeDog
Those sick dogs!
25:61 am - 13 January 2017
(made up example 2)
Overview

Goal

- **Annotated dataset** for offensive language studies
- **Classifier** with good prediction accuracy, even for new datasets
Overview

Goal

- **Annotated dataset** for offensive language studies
- **Classifier** with good prediction accuracy, even for new datasets

Input

- **Unannotated dataset**: e.g. Twitter tweets
Overview

Goal

- Annotated dataset for offensive language studies
- Classifier with good prediction accuracy, even for new datasets

Input

- Unannotated dataset: e.g. Twitter tweets

Process

- Data annotation: crowdsourced instead of expert
- Machine learning method: active instead of passive learning
- Classification: Offensive, Other
Crowdsourcing

- Amazon Mechanical Turk (AMT)
- Why
  - Annotate a large amount of data (HITs)
    - Scalable
  - Cost
Process

Crowdsourcing

- Amazon Mechanical Turk (AMT)
- Why
  - Annotate a large amount of data (HITs)
  - Scalable
  - Cost

Example with Twitter dataset

- Send tweets for annotation as *Human Intelligence Tasks* (HITs)
- Receive annotated HITs
Process

Active Learning
Applications

- Browser plugin to hide/mark offensive content
- **Automatically flag content for moderation**
  - Wordpress
  - All sites that have user-generated content
- **Use degree of offensiveness as quality measurement for posts**
  - Numerical value that shows an offensiveness score for every post
Essay Scoring

Patrick Saad, Yamen Ajjour, Henning Wachsmuth, Khalid Al-Khatib

WS15-16 project | HIWI in 2016

HIWI supervisors: Khalid Al-Khatib, Henning Wachsmuth
The goal is to ... improve the efficiency of large-scale essay scoring

> International Corpus of Learner English (ICLE) (Granger et al., 2009)
> 10 prompt topics
Essay Scoring

What kind of score

Score between 1 to 4 regarding a specific dimension

> Argument Strength *(Persing et al., 2015)*
> Thesis Clarity *(Persing et al., 2013)*

more examples
> Organization
> Coherence
Essay Scoring

Technical

What we used
> Apache UIMA
> JAVA 8
> Tomcat 8

Features
> POS (1-5)
> Token N-grams (1-3)
> Sentiment Analysis
> Argumentative Discourse Units
> Document Foundness

Results

<table>
<thead>
<tr>
<th>Feature</th>
<th>Persing et al.</th>
<th>Patrick et Yamen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argument Strength</td>
<td>0.244</td>
<td>0.2251</td>
</tr>
<tr>
<td>Thesis Clarity</td>
<td>0.369</td>
<td>0.437</td>
</tr>
</tbody>
</table>

Patrick Saad, Yamen Ajjour, Henning Wachsmuth, Khalid Al-Khatib | Webis 2016
Essay Scoring

Online demo

http://webis16.medien.uni-weimar.de/essay-scoring
Argument Unit Segmentation

By: Yamen Ajjour (HIWI)

Supervisor: Johannes Kiesel
Argument Unit Segmentation

Motivation

Essay Scoring Systems

The essay makes a strong argument.
Argument Unit Segmentation

Motivation

Argument Search Engine

There are practical problems with banning abortions
- show attacking arguments
- show supporting arguments

There can be medical reasons for terminating a pregnancy
- show attacking arguments
- show supporting arguments

Legalizing abortion leads to irresponsible sexual behaviour
- show attacking arguments
- show supporting arguments
Argument Unit Segmentation

What is an argument?

An argument is a set of argument units (a conclusion and set of premises)

I should get a good grade in my exams

I studied a lot

I studied effectively
Given a plain text how to split it into text segments that cover argument units?
Argument Unit Segmentation

Approach

- **Conventional:** An argument unit spans a grammatical unit, such as clause or sentence

- **Training a classifier to distinguish the boundaries of an argument unit**
  - An input instance: Each two consecutive words is a boundary candidate
  - Features:
    - Is the boundary candidate at the start of a clause
    - Is the boundary candidate after a comma
    - Is the boundary candidate after a connective

```
I should pass the exam because I studied a lot and I studied effectively.
```

<table>
<thead>
<tr>
<th>Positive Boundary Candidate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative Boundary Candidate</td>
</tr>
</tbody>
</table>
Hiwi Work:
Web Resources for Argument Mining

by Kevin Lang and Jakob Herpel
Motivation

We want to develop a system to detect arguments.

To improve...

- Search Engines
- Dialog Systems
- Writing Assistant Applications
Solution: Machine Learning!

- **Problem**: require labeled dataset (manual labeling very difficult and expensive)
- **Solution**: automatic creation of labeled dataset for argument mining

How? Finding appropriate web resources and filter them automatically!
“Classifying Arguments by Scheme” by Feng and Hirst, 2011

- Argument from example
- Argument from cause to effect
- Practical reasoning
- Argument from consequences
- Argument from verbal classification
Consequences in ClueWeb12

- How to extract consequences:
  - lexical indicators, sentiment analysis, relatedness to good/bad concepts

- We use:
  - regular expressions, sentiment analysis tools, word2vec
Wiki Talks
List of lists of lists

From Wikipedia, the free encyclopedia

This is a dynamic list and may never be able to satisfy particular standards for completeness. You can help by expanding it with reliably sourced entries.

This is a list of articles that are lists of list articles on the English Wikipedia. In other words, each of the articles linked here is an index to multiple lists on a topic. Some of the linked articles are themselves lists of lists of lists.

Contents

1. General reference
2. Culture and the arts
   2.1 Literature
   2.2 Art and the arts
      2.2.1 Performing arts
      2.2.2 Visual arts
   2.3 Entertainment and recreation
      2.3.1 Games
   2.4 Sports
   2.5 Mass media
3. Geography and places
   3.1 Natural geographical features
   3.2 Countries and regions
   3.3 Places
      3.3.1 Settlements
4. Mathematics and logic
5. Natural and physical sciences
   5.1 Biology
   5.2 Physical sciences
6. People
7. Religion and belief systems
8. Society and social sciences
   8.1 Linguistics
   8.2 Social institutions
      8.2.1 Infrastructure
      8.2.2 Economy and business
   8.3 Education
Comment Tags

Requested move 17 September 2016  [edit]

The following is a closed discussion of a requested move. Please do not modify it. Subsequent comments should be made in a new section on the talk page. Editors desiring to contest the closing decision should consider a move review. No further edits should be made to this section.

The result of the move request was: not moved (non-admin closure) GeoffreyT2000 (talk, contribs) 19:55, 24 September 2016 (UTC)

List of lists -- Wikipedia List of lists of lists -- Belongs in project space. KATMAKROFAN (talk) 16:18, 17 September 2018 (UTC)

**Oppose** -- maybe all navigational lists should be moved to project space, but there's no reason to move one and leave e.g. all of the lists of lists this list list lists, which are also purely navigational. -- rhododendrites 14:54, 19 September 2018 (UTC)

What has changed since the previous request last January which was most participates opposed? --64.229.164.105 (talk) 03:26, 19 September 2016 (UTC)

**Oppose** -- Navigates to, serves, mainspace articles, and therefore belongs in mainspace. --smokeyjoe (talk) 03:57, 19 September 2016 (UTC)

Portals also "navigate to (and) serve mainspace articles", but they have their own namespace. KATMAKROFAN (talk) 14:15, 23 September 2016 (UTC)

The above discussion is preserved as an archive of a requested move. Please do not modify it. Subsequent comments should be made in a new section on this talk page or in a move review. No further edits should be made to this section.

Proposal: A list of lists that don't contain themselves.  [edit]

I cannot figure out if this type of simple list should contain itself. Any suggestions? NevilleDNZ (talk) 03:42, 8 November 2016 (UTC)

Suggestion: Russell's paradox --mfb (talk) 19:50, 5 January 2017 (UTC)

There is List of lists that do not contain themselves. -- Lantala (talk) 20:25, 5 January 2017 (UTC)

Rename to "Lists of lists"  [edit]

Would be less confusing. Xeoxer (talk) 18:56, 12 November 2016 (UTC)

I disagree, this article is exactly what it says in the title: a list of list of lists. "List of lists" would be inaccurate and, ergo, confusing. Also, then this article wouldn't be funny. --2802.308:334C:4DA0:7DDA:8BBD:58C0:5C4A (talk) 13:34, 29 December 2018 (UTC)
How:

● parsing wiki discussions with user's metadata (e.g., support and opposed tags)

Challenges:

● ambiguous discussion hierarchies
Conclusion

- Exploited two web resources: (a) clueweb12 and (b) wiki talks for argument mining.
- Investigated how to extract argument consequences from (a) and argument discourse structures from (b).
Future Works

- Understand segments and parts of sentence where to find consequences
- Fix hierarchy problem by generating more heuristic rules to fix the structure of ill-formed discussions
Thanks for your Attention!
Vandalism In Wikipedia

Milad Alshomary

Bauhaus University
Vandalism In Wikipedia

- Vandalism is defined by Wikipedia as: “Any malicious edit which attempts to reverse the main goal of the project of Wikipedia.”

Plato

From Wikipedia, the free encyclopedia

This is an old revision of this page, as edited by Frankenthalers (talk | contribs) at 00:32, 19 February 2007. The present address (URL) is a permanent link to this revision, which may differ significantly from the current revision.

(diff) | Previous revision | Latest revision (diff) | Newer revision − (diff)

Plato was the inventor of the tellyvision and light. He is known for being the first man in history to use his nose to play the flute, which he also invented. This is a point of contention among many as he didn’t write about this in his many works, although he was regularly reported to have played some contemporary jazz in his many on-fuelled conversations on homosexuality. Plato also invented the guitar and pirates and was invited to have dinner with Captain MacNabby of the Good Ship Skullbe.

Gallard consisted mainly of a bucket filled with chum and gunpowder for seasoning.
Vandalism In Wikipedia

- Solutions against vandalism:
  - Reviewing edits and contributions by users.
  - Automated tools to prevent vandalism.
  - What about mining the vandalism and trying to understand the pattern behind it?
Vandalism In Wikipedia

- A research to perform spatio-temporal analysis of vandalism on Wikipedia.

Johannes Kiesel  
Martin Potthast  
Matthias Hagen  
Benno Stein
Vandalism In Wikipedia

Interactive web interface to communicate the results:

*How the spatial distribution of vandalism ratio looks like?*

Heat map of vandalism ratio
Vandalism In Wikipedia

Interactive web interface to communicate the results:

*How the vandalism ratio changes over hour of day in each season in USA?*

![Graph showing the ratio of vandalism over the hour of the day for different seasons (Fall, Winter, Spring, Summer)].

Hour of the day to ratio of vandalism (By season)
Vandalism In Wikipedia

Interactive web interface to communicate the results:

How the vandalism ratio changes over hour of day for each week day in USA?

Hour of the day to ratio of vandalism (By day of the week)
Vandalism In Wikipedia

Interactive web interface to communicate the results:

How the vandalism ratio changes over hour of day for each week day in France?

Hour of the day to ratio of vandalism (By day of the week) In France
Vandalism In Wikipedia

- Research Results:

  Vandalism is related to work/study habits!!

  Vandalism may be a form of stress-relief
Argumentation Strategies

Khalid Al-Khatib, Henning Wachsmuth, Benno Stein

Bauhaus-Universität Weimar
How to write a **convincing** text?

WE NEED

- **Content**
- **Structure**
- **Style**
Operator-based argumentative text Generator

Select Patterns
Order Patterns
Phrase Patterns

Arguments
A
B
C
D
E
F
G

Select
Order
Phrase
B
D
E
F
G
E
F
G
B
D
E
F
G
B
D
Positive or negative claims and facts.

Perspectives (economic vs. politic)

Personality

Argument structure

Discourse structure

Argumentative flow

Rhetorical figures

Information structure

Function words
2017 ACM DEBS Grand Challenge

12. Januar 2017
Overview

- **goal:** detecting anomalies in the behaviour of a manufacturing machine using sensor data
- **restrictions:**
  - two different types of machine: injection molding machine and assembly machine
  - sensor data delivered at a certain time
  - following procedure for detecting the anomalies:
    1. clustering all the data of one sensor and one machine in the last W time units (where number of cluster is given)
    2. modelling the transitions from one cluster centre to another as a Markov process
    3. detecting anomalies
- **input:** sensor data of each machine represented as RDF tuples containing information on type, number of clusters per dimension and machine instance, current sensor data, timestamp
- **output:** anomaly or not in a certain dimension and in a certain machine in RDF
A Large-scale Analysis of the Mnemonic Password Advice

Johannes Kiesel, Benno Stein, Stefan Lucks
Bauhaus-Universität Weimar
www.webis.de

Weimar, January 12th 2017
Problem: You need a new password

Password:  

Show password
Problem: You need a new password

Method: Standard

Let's just pick...

Password: Password123

✓ Show password
Problem: You need a new password

Method: Dictionary

Password: embalm fuss yogi layup

Show password
Problem: You need a new password

Method: Mnemonic

Password: Wlw2tgs,twcfo

Show password
What method is best?

Example: passwords with on average 9 characters
(an overly simple comparison)

<table>
<thead>
<tr>
<th>Method</th>
<th>Standard$^1$</th>
<th>Dictionary$^2$</th>
<th>Mnemonic$^3$</th>
<th>Max$^4$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Like rolling a dice with</td>
<td>$10^8$</td>
<td>$10^7$</td>
<td>?</td>
<td>$10^{17}$</td>
</tr>
</tbody>
</table>

---

2. Two diceware words, average length of 9.5
3. Minimum length of 8, average length of 9.4
4. Uniform distribution over 95 characters, length of 9
What method is best?

Example: passwords with on average 9 characters
(an overly simple comparison)

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<tr>
<td>Like rolling a dice with</td>
<td>10(^8)</td>
<td>10(^7)</td>
<td>10(^{11})</td>
<td>10(^{17}) faces</td>
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</table>

\(^2\) Two diceware words, average length of 9.5
\(^3\) Minimum length of 8, average length of 9.4
\(^4\) Uniform distribution over 95 characters, length of 9
What method is best?

Example: passwords with on average 9 characters
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</tr>
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Our approach:

---

2. Two diceware words, average length of 9.5
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What method is best?

Example: passwords with on average 9 characters (an overly simple comparison)

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</tr>
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</table>

Our approach:

Wl\(w^2\)tgs,twcfo \(\approx\) Pdnatraia7dowyrti

---


\(^2\) Two diceware words, average length of 9.5

\(^3\) Minimum length of 8, average length of 9.4

\(^4\) Uniform distribution over 95 characters, length of 9
Our research

The data

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Source/Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>730,000,000</td>
<td>Web pages</td>
<td>(ClueWeb12, 27.3 TB)</td>
</tr>
<tr>
<td>3,400,000,000</td>
<td>Sentences</td>
<td>(aitools4-aq-web-page-content-extraction)</td>
</tr>
<tr>
<td>25,000,000,000</td>
<td>Passwords</td>
<td>(18 password generation rules)</td>
</tr>
<tr>
<td>6,400</td>
<td>Language models</td>
<td>(5.1 TB)</td>
</tr>
<tr>
<td>970</td>
<td>Strength estimates</td>
<td>(4 metrics)</td>
</tr>
</tbody>
</table>

Selected results for mnemonic passwords:

- Use lowercase letters only, but one character more
- Sentence complexity does not play a big role
- Password strength is far worse than for purely random passwords
Our research

The data

| 730,000,000  | Web pages | (ClueWeb12, 27.3 TB) |
| 3,400,000,000 | Sentences | (aitools4-aq-web-page-content-extraction) |
| 25,000,000,000 | Passwords | (18 password generation rules) |
| 6,400 | Language models | (5.1 TB) |
| 970 | Strength estimates | (4 metrics) |

Selected results for mnemonic passwords:

- Use lowercase letters only, but one character more
- Sentence complexity does not play a big role
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Thank you for your attention