

One-minute Poster Pitch Session

- Poster presenters pitch their posters
- Presentation order: Last name of first author, asc.

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Samuel Borms

Alexandros Paramythis

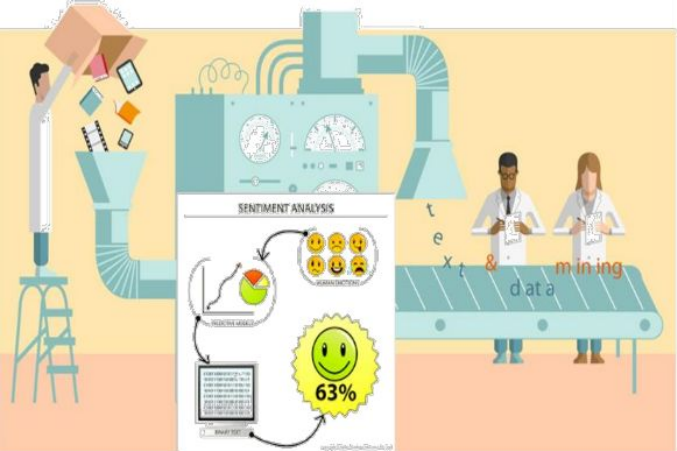
Gerold Schneider

Noëmi Aepli, Nora Hollenstein, Simon Clematide

Christof Traber

Don Tuggener

Egon Werlen



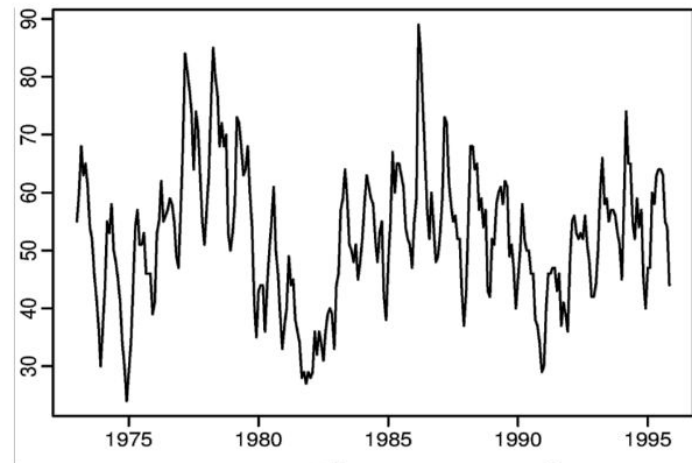
textual sentiment
analysis



sentometrics

research

R package



time series
econometrics

Macroeconomic
forecasting

Event
detection

Reputation
monitoring

Investment
analysis

Andres Algaba
David Ardia
Keven Bluteau
Samuel Borms
Kris Boudt

Université de Neuchâtel & Vrije Universiteit Brussel

WINE AROMAS

Extraction

Attribute Extraction pipeline
Natural Language Processing
Dictionaries & Thesauri

Faceting

Clustering

DATA SET

130K wine reviews

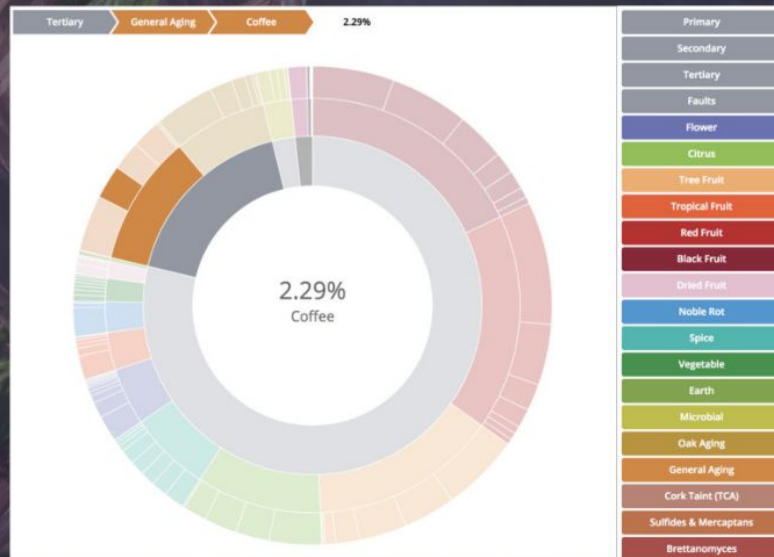
Terra d'Oro 2014 Teroldego (Amador County)

Super-concentrated and intense, this starts with a very deep color and aromas like **espresso** and **smoked** meat. Flavors suggest **black cherry** and **cranberry** shaded with **spices**. An **earthy**, savory thread runs through all the dark fruit and spices, lingering on the finish.

espresso

coffee

general aging



Enhancing Search with Facets, Categories and Clusters extracted from Free Text

APPLICATION DOMAINS

business cluster search
e-commerce
enterprise search

...



NOAH 3.0: Recent Improvements in a Part-of-Speech Tagged Corpus of Swiss German Dialects

Noëmi Aepli, Nora Hollenstein, Simon Clematide

Are you interested in NLP techniques and resources for syntactic analysis of Swiss German?

We are happy to show you what we did so far...

Do you want to know more about the annotation challenges of written Swiss German ... and how Machine Learning deals with it?

Let's have a discussion at our poster!



A Morphological Toolset for Rumantsch Grischun

Simon Clematide

Are you interested in efficient lemmatization and morphological analysis of Rumantsch Grischun?

Any need for generating inflected word forms or full paradigms?

Do you want to know how little annotated data is needed for a decent part-of-speech tagger?

We are happy to share what we have done so far!

SlowSoft Speech Technology Components for Swiss German and Romansh

Author: Christof Traber, SlowSoft GmbH, June 12-13, 2018

- Introduction to company and products
 - Speech synthesis, speech recognition (together with other companies), dialog systems for (Swiss) minority languages
 - First company to provide speech synthesis (Text-to-speech, TTS) in Romansh and Swiss German
- Focus on text analysis in TTS
 - Role and importance of text analysis within a TTS system
 - Problems of text entry and analysis for Swiss German in TTS
 - description of different realized and envisaged solutions (depending on application)
- Demos of TTS and dialog systems

Differences between Swiss High German and German High German via data-driven methods

We all know: Germans write *parken*, the Swiss use *parkieren* – but could we come up with a systematic list, completely driven by the data? **YES!** Let's spot the differences in lexis, morphosyntax, and syntax.

We use overuse metrics, document classification, automatic tagging and parsing.

E.g. Lexis:

Position	Feature	Frequency (CH)	Feature Influence ↓	Comment
6	welch	9664	11.595	Relative Pronoun
7	zürcher	1869	11.161	züricher
14	basler	1324	8.798	baseler
15	galle	1366	8.727	(dialect word not recognized as proper name)
16	gemäss	2424	8.624	zufolge
17	anlass	2660	8.572	veranstaltung

and thousands more.

E.g. Syntax:

- Longer sentences in German High German, more paratactic style in Swiss High German
- More genitive modifications and objects in German High German, typologically more synthetic
- Are the Swiss less direct?

Do you want to know?

Bei allfälligem Verlangen nach mehr Information ist das Poster an diesem Anlass zu besuchen

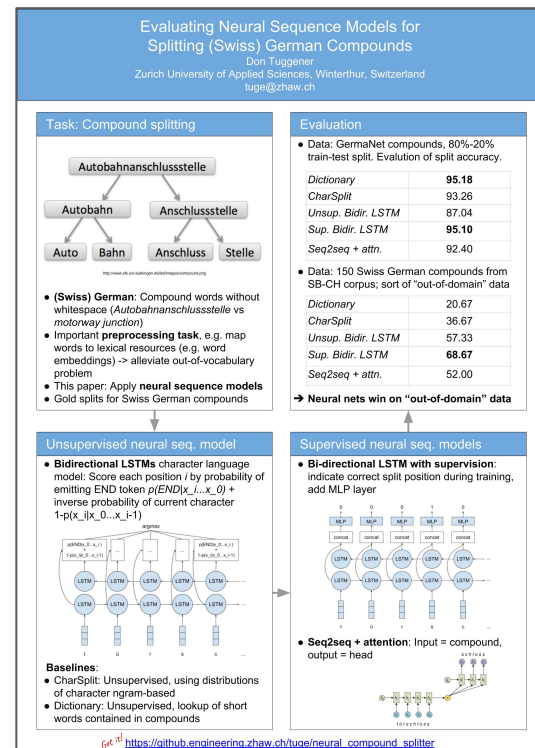
sorry, I mean

Zwecks Stillung Ihres etwaigen Informationsbedürfnisses erbitten wir zeitnahes Aufsuchen der Poster dieser Veranstaltung

Evaluating Neural Sequence Models for Splitting (Swiss) German Compounds

Don Tuggener, ZHAW

- Problem in German NLP: Is *Rindfleischetikettierungsüberwachungsgesetz* in your lexical resource (e.g. word embedding)?!
- Solution: Compound splitting
Rindfleisch Etikettierung Überwachung Gesetz
- Poster: Evaluate neural nets for the task
- Apply and evaluate models on Swiss German

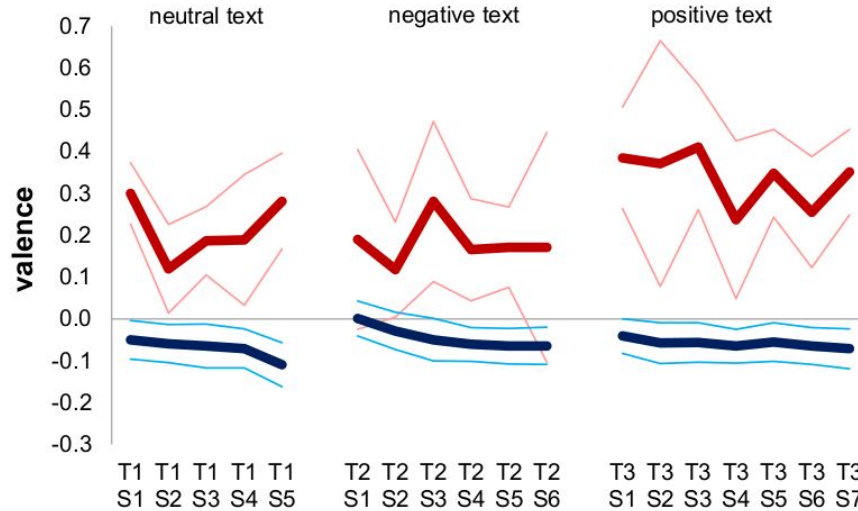


Is reading mirrored in the face?

A comparison of linguistic parameters and emotional facial expressions

Egon Werlen, Ivan Moser, Christof Imhof & Per Bergamin

Institute for Research in Open-, Distance- and eLearning (IFeL)
Swiss Distance University of Applied Sciences (FFHS)



Prediction of facial emotional valence by lexical emotional valence, readability (easy / difficult) and type of text (neutral / negative / positive)

- Significant results
- Only **0.3%** variance explained
- Readers' facial emotional valence \neq Text's lexical emotional valence

Lexical emotional valence
sentiment analysis with BAWL-R
text with difficult readability

Facial emotional valence
FaceReader®