

CS918: LECTURE 19b

Summary of the Module

Arkaitz Zubiaga, 5th December, 2018

NATURAL LANGUAGE PROCESSING

- 19 lectures.
- 8 seminars.
- 5 lab sessions.
- **Assessment:**
 - 2 assignments: preprocessing (10%) and sentiment analysis (20%).
 - Exam (70%)

NATURAL LANGUAGE PROCESSING

- A few **changes from previous years**.
 - As I know you'll be **looking at previous years' exams!**
- Comparing with 2 years ago, this and past year **we haven't seen**:
 - Morphology and finite state methods.
 - The parsing lectures have been shortened.
 - Sequence classification has been shortened.

NATURAL LANGUAGE PROCESSING

- We have however seen **new and timely materials**:
 - Spelling correction.
 - Information retrieval (4 lectures).
 - Recommender systems.
 - Event detection for social media.

NLP: LECTURES

- [1-4] Preprocessing, regex, language models.
- [5] Spelling correction.
- [6] Word embeddings.
- [7-8] Text classification.
- [9-11] Computational linguistics (grammars, parsing, IE).
- [12-15] Information retrieval.
- [16-18] Recommender systems, text summarisation and question answering.
- [19] Social media, event detection.

NLP: EXAM

- The exam will be in May/June.
- Revision lectures will take place slightly before that.
- I will NOT be at Warwick and hence won't mark the exams.
 - Exam style will still be similar to that of previous years.

TEXTBOOK(S)

- **[most of the content]** Jurafsky, Daniel, and James H. Martin. 2009. Speech and Language Processing: An Introduction to Natural Language Processing, Speech Recognition, and Computational Linguistics. 3rd edition.
- **[information retrieval]** Manning, C. D., Raghavan, P., & Schütze, H. (2008). Introduction to information retrieval (Vol. 1, No. 1, p. 496). Cambridge: Cambridge university press.
- **[recommender systems]** Aggarwal, Charu C. Recommender systems. Springer International Publishing, 2016.