

Key High-Level Take-Away Messages

- 13. Joint mining of text and non-text
- 14. Contextual PLSA
- 15. NetPLSA
- 16. Causal topic mining

- 6. Probabilistic Topic Model (PLSA, LDA)
- 7. Generative model; ML estimate; EM
- 8. Text clustering: model vs. similarity-based
- 9. Text categorization: generative vs. discriminative
- 10. Evaluation of clustering and categorization



Perceive
→
(Perspective)

- 1. NLP → Text representation → Knowledge discovery
- 2. Robust TM = Word-based rep + Statistical analysis

(English)

Representation

- 11. Sentiment classification: ordinal regression
- 12. Latent Aspect Rating Analysis

- 3. Paradigmatic and syntagmatic relations
- 4. Text similarity: Vector space, BM25
- 5. Co-occurrence analysis: Entropy, MI