Course Summary

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Models of Discourse

Modelling discourse coherence

- applications:

- methods:

Modelling discourse focus

- applications:

- methods:
Modelling discourse coherence

- **applications:** essay scoring, evaluating (text-to-text) generation . . .
- **methods:**

Modelling discourse focus

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Models of Discourse

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- **methods**: centering, lexical chains / word co-occurrence . . .

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- **applications**: coherence modelling, referring expressions, pronoun resolution
- **methods**: 
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- **methods**: centering
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Modelling discourse structure

- applications:
- methods:

Modelling dialogue structure

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- **applications:** text understanding, text generation
- **methods:**

Modelling dialogue structure

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- **methods**: discourse parsing (typically based on surface cues)

Modelling dialogue structure

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Modelling dialogue structure

- **applications**: dialogue systems
- **methods**: 

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Modelling dialogue structure

- **applications**: dialogue systems
- **methods**: e.g., manually built finite state grammars
Topic Segmentation / Text Tiling

- **methods:**

Essay Scoring

- **methods:**

Information Ordering

- **methods:**
Applications (1)

Topic Segmentation / Text Tiling

- **methods:** word overlap

Essay Scoring

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Essay Scoring

- **methods:** models of discourse coherence (centering, lexical cohesion etc.)

Information Ordering

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Information Ordering

- **methods**: centering
Generating Referring Expressions

- methods:

Co-Reference Resolution

- methods:

Text Summarisation

- methods:
Generating Referring Expressions

- **methods:** heuristics (e.g. shortest expression that singles out the object)

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Co-Reference Resolution

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Text Summarisation

- **methods**: determine importance based on overlap (words, templates) or centrality (e.g., lexical chains, nuclei in RST); select and order important information, possibly re-write
Discourse Parsing

- methods:

Sentiment Analysis

- methods:

Dialogue Systems

- methods:
Discourse Parsing

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Dialogue Systems

- **methods**: e.g., based on frame-and-slot semantics, manually built semantic grammars and dialogue managers
Before you leave . . .

Term Papers

- talk to me now(ish) if you’d like to write one

Feedback

- topics (anything missing? anything not so interesting?)
- student presentations (were the preparatory meetings useful?)
- homeworks (interesting?, useful?, too many? too few?)