A Survey of Discourse Parsing

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Problems & Ideas

- Problem: no survey papers for recent research paper of discourse parsing.
- Ideas: we summarize several different kinds of English discourse parsing tasks.

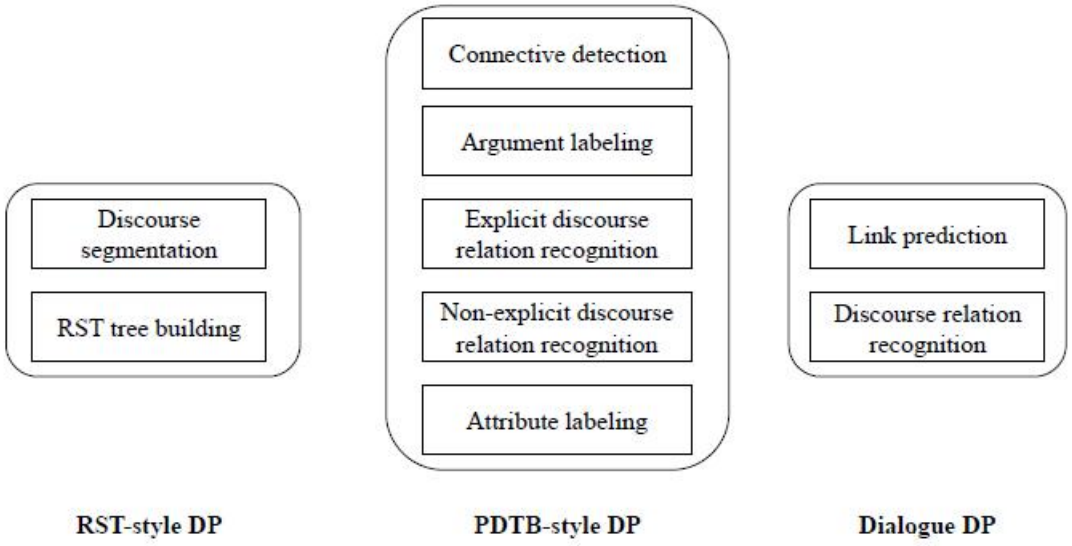

Fig. 1 An overview of discourse parsing (DP) task.

Main Contributions

- In this survey, we introduce the task of discourse parsing and related datasets
- Furthermore, we introduce existing methods for discourse parsing.
- We describe the applications of discourse parsing and show our opinion on this task.
- At last, we introduce trends and related work.

	RST-style	PDTB-style	Multiparty dialogue DP	
Datasets	RST-DT	PDTB	STAC	Molweni
Source	WSJ	WSJ	Settlers of Catan	Ubuntu Corpus
Theory	RST	D-LTAG	SDRT	SDRT
Scale	385 Docs, 21,789 EDUs	2,159 Docs, 40,600 Relations	1,091 Dialogue, 10,677 utterances 11,348 relations	10,000 Dialogue 88,303 utterances 78,245 relations
Annotation	(1) Discourse segmentation; (2) RST tree annotation.	1. Detect discourse connectives; 2. Arguments labeling; 3. Discourse relation recognition (Explicit, Non-Explicit) 4. Attribute labeling	(1) Detect discourse dependency links. (2) Classify discourse relations.	(1) Detect discourse dependency links. (2) Classify discourse relations.

Table 1. Comparisons among popular English discourse treebank.