Annotating discourse relations in spoken language: A comparison of the PDTB and CCR frameworks.

Rehbein, Scholman, & Demberg (2016)

Category	Relation	Subtype	pos temp obj NA	pos temp obj basic	pos temp obj non-b	pos caus obj basic	pos caus obj non-b	pos caus subj basic	pos caus subj non-b	pos cond obj basic	pos cond obj non-b	pos cond subj basic	pos cond subj non-b	neg cond obj basic	neg cond obj non-b	neg cond subj basic	neg cond subj non-b	neg caus obj basic	neg caus obj non-b	neg caus obj NA*	neg caus subj basic	neg caus subj non-b	neg caus subj NA*	neg add obj NA	neg add subj NA	pos add obj NA	pos add subj NA	raw count
Temporal	Synchronous		68	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	5	53
	Asynchronous	precedence	2	77	3	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8	4	87
	Asynchronous	succession	6	17	39	6	0	0	5	11	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	0	0	18
Contingency	Purpose	Arg1-as-goal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Purpose	Arg2-as-goal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cause	reason	0	0	0	4	22	5	63	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	163
	Cause	result	0	0	0	33	1	48	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	137
	Cause_Belief	reason	0	0	0	0	9	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	11
	Cause_Belief	result	0	0	0	9	0	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	11
	Cause_Speechact	reason	0	0	0	0	0	36	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
	Cause_Speechact	result	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
	Condition	Arg1-as-cond	3	1	1	0	0	0	1	22	7	33	24	0	0	1	1	0	0	0	0	0	0	0	0	1	5	79
	Condition	Arg2-as-cond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Condition_Speechact		0	0	0	0	0	0	0	0	0	60	27	0	0	0	0	0	0	0	0	0	7	0	0	0	6	15
	Negative_condition	Arg1-as-negcond	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Negative_condition	Arg2-as-negcond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Negative_condition_Speechact		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Comparison	Concession	expectation	0	0	0	0	0	0	0	0	0	0	20	20	0	20	0	0	0	0	0	0	20	0	0	20	0	5
	Concession	contra-expectation	0	2	0	0	0	4	0	0	0	0	0	0	0	0	0	11	0	0	4	4	18	20	33	0	4	54
	Concession+Speechact		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	6
	Contrast		0	1	1	0	1	1	2	0	0	0	0	0	0	0	0	2	1	1	5	0	4	33	43	2	3	206
	Similarity		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	50	2
Expansion	Disjunction		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	55	0	20	20
	Exception	Arg1-as-exception	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	1
	Exception	Arg2-as-exception	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	1
	Substitution	Arg1-as-subst	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	1
	Substitution	Arg2-as-subst	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	15	64	7	0	14
	Conjunction		1	16	1	2	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	31	31	538
	Specification	Arg2-as-detail	0	0	1	1	6	2	25	0	0	1	1	0	0	0	0	0	0	0	1	0	0	3	4	27	28	112
	Specification	Arg1-as-detail	0	0	0	0	3	23	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	13	39	31
	Equivalence		0	0	0	0	2	4	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	14	42	45
	Instantiation		0	0	2	0	0	0	24	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	3	16	50	38
	Manner	Arg1-as-manner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Manner	Arg2-as-manner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Figure 1: Distribution (%) of DRs annotated for the Disco-SPICE corpus. Only labels for which annotators agreed on segmentation are included in the table.
*Originally, negative causal relations do not have a NA order. However, in this study the coder annotated NA when she could not determine the order.