

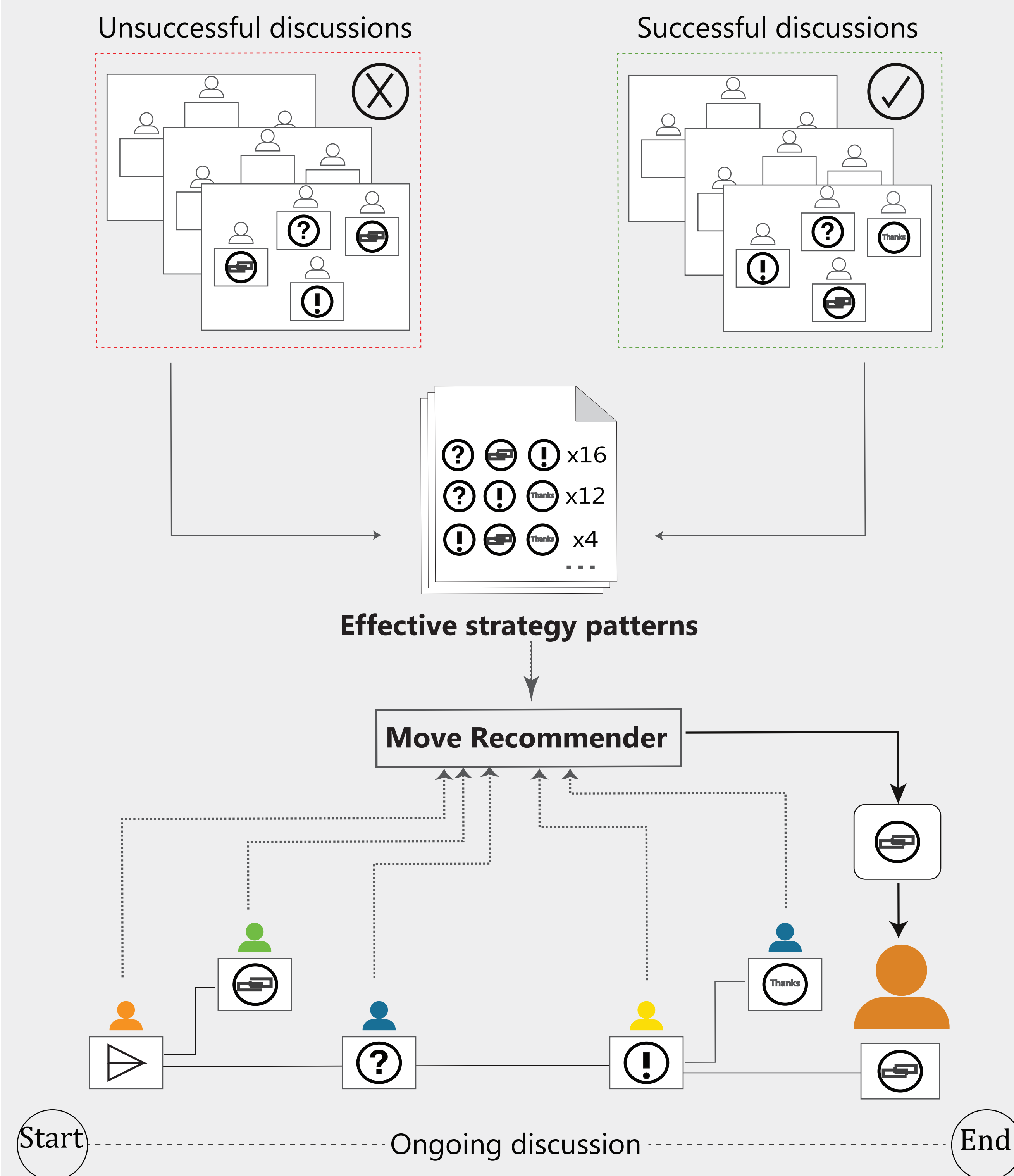
Modeling Deliberative Argumentation Strategies on Wikipedia

Recommending the best deliberative act in discussions

Deliberation is the type of discussions where the aim is to find the best choice from a set of possible actions.

Deliberative Strategy is a sequence of moves that participants take during the discussion. Such a sequence is effective if it leads to a successful discussion.

Recommending the best deliberative move according to an 'effective strategy' is the ultimate goal of this study.



Towards this goal two fundamental research questions are addressed in the paper:

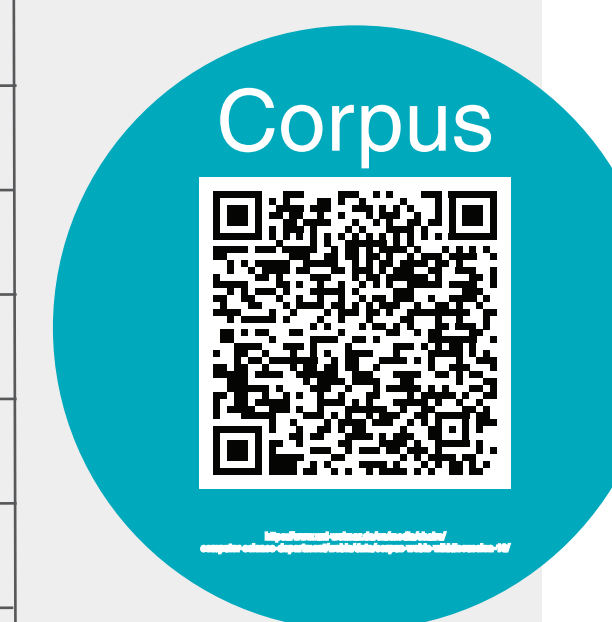
- (1) How to model deliberative discussions?
- (2) How to operationalize the model?

Modeling deliberative strategies on Wikipedia discussions

New model for deliberative discussions on Wikipedia is derived statistically using several types of metadata that people use to describe their moves on Wikipedia talk pages.

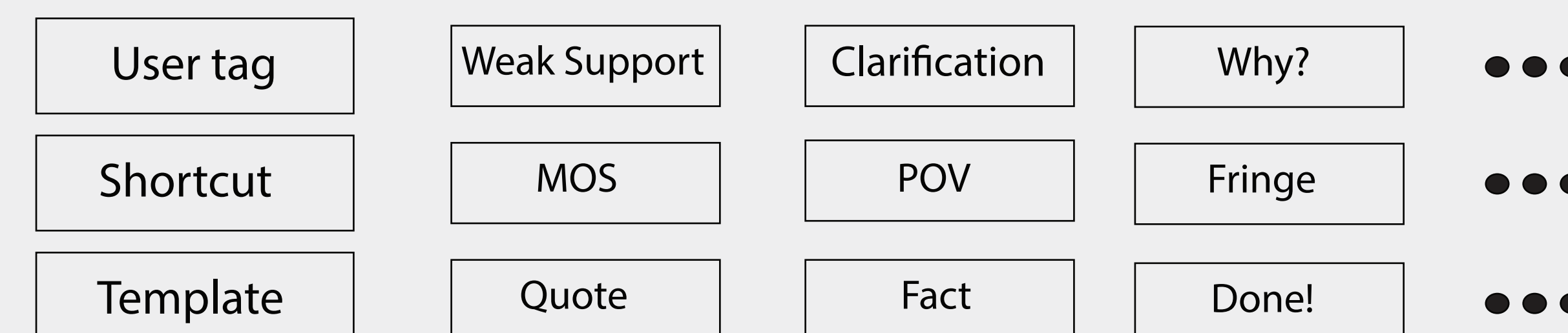
Webis-WikiDiscussions-18 corpus is the basis of the derivation. The corpus is the output of parsing the entire set of English Wikipedia Talk Pages.

Corpus Component	Instances
Page	5 807 046
Discussion	5 941 534
Discussion template	144 824
Turn	20 816 860
Registered users	739 244
Turns by registered users	10 926 670
Turns by anonymous user	9 890 190
Tag	99 889
Shortcut	425 583
Inline template	3 382 443
Links	4 824 085
Turns with tag and shortcut	2 347
Turns with tag and inline template	61 521
Turns with shortcut and inline template	170 065

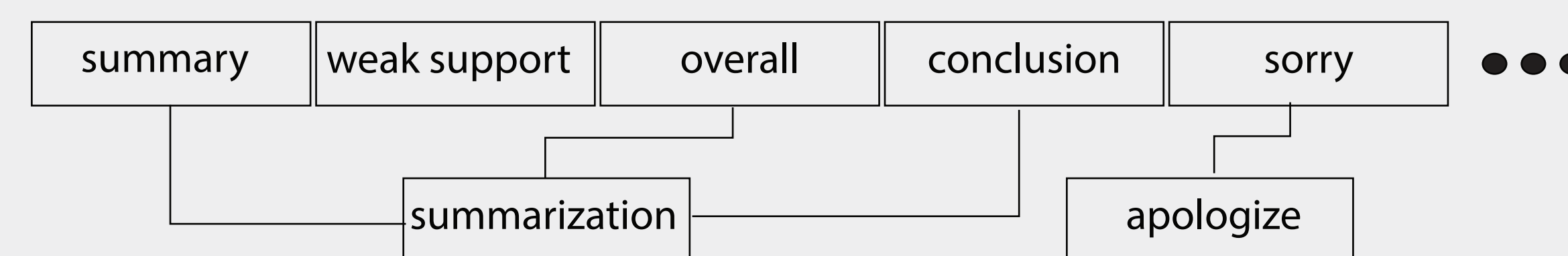


Model Derivation is done based on the following steps:

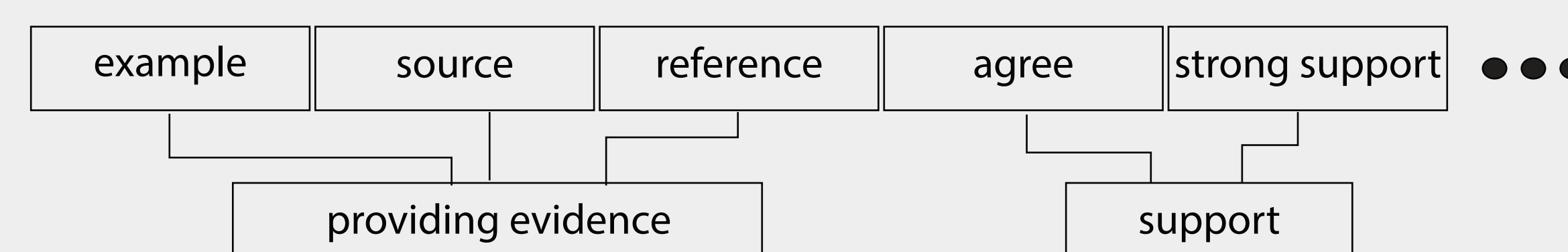
(1) Metadata inspection



(2) Concept origination



(3) Concept categorization



Operationalizing the deliberative strategies model

The task is identifying the discourse act, relation, and frame of each turn in a deliberative discussion.

(Computational Linguistics) Merge

Deliberative model

I think that this article should probably be merged with Computational linguistics, but I am not fairly new to Wikipedia, so I am not sure. [Lambda](#) **Disagree** While they are related, they are not really the same thing. Computational linguistics tries to use computer techniques to better understand linguistics as a discipline, while NLP tries to build ways for computer to understand language. See the top answer here: [quora](#). It is a nice explanation from an expert. [Delirium](#)



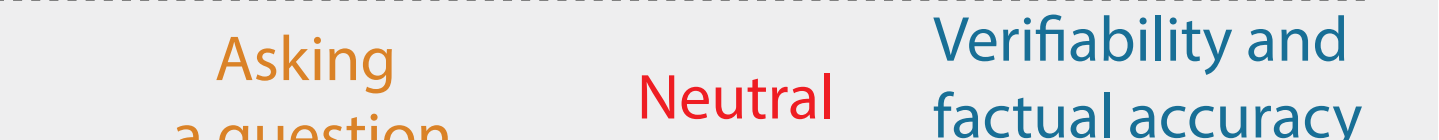
Proposal I think we can merge them and call the article 'Computational Linguistics and Natural Language Processing'. That solves the problem :-). [Steven](#)



Based on [[WP:MOS]], they should be merged in one article with the title of the most used term (in case they are similar!) [Tim](#)



Do CL and NLP have separate conferences? [Max](#)



I think ACL and COLING have both CL and NLP papers. [Stefanie](#)



Thanks for your answer. [Max](#)



Supervised learning model with features that capture lexical, semantic, style, and pragmatic properties of turns.

Dimension	Category	#Turns	F1-Score
Discourse act	Socializing	83	0.13
	Providing evidence	781	0.69
	Enhancing the understanding	671	0.58
	Recommending an act	137	0.10
	Asking a question	106	0.31
	Finalizing the discussion	622	0.71
Argumentative relation	Support	2 895	0.56
	Neutral	1 937	0.52
	Attack	2 605	0.50
Frame	Writing quality	19 893	0.57
	Verifiability and factual ac.	72 049	0.67
	Neutral point of view	60 007	0.58
	Dialogue management	30 372	0.60

