Khalid Al-Khatib Henning Wachsmuth Kevin Lang Jakob Herpel Matthias Hagen Benno Stein 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.



Web Technology and Information Systems

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
Page
Discussion
Discussion template
Turn
Registered users
Turns by registered users
Turns by anonymous user
Тад
Shortcut
Inline template
Links
Turns with tag and shortcut
Turns with tag and inline template
Turns with shortcut and inline template

Model Derivation is done based on the following steps:

(1) Metadata inspection

User tag	Weak Support	Clarifica
Shortcut	MOS	POV
Template	Quote	Fact

(2) Concept origination



(3) Concept categorization



www.webis.de

Instances	
5 807 046	
5 941 534	
144 824	
 20 816 860	Corpus
 739 244	
10 926 670	
9 890 190	
99 889	
425 583	
3 382 443	-
4 824 085	-
2 347	
61 521	
170 065	

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

think that this article ably be merged with C		Re	elation	
inguistics, but I am no Vikipedia, so I am not so Disagree While they are are not really the same the ional linguistics tries to echniques to better up guistics as a discipline, w o build ways for compo- tand language. See the nere: <i>quora</i> . It is a nic rom an expert. Delirium	ure. Lambda e related, they ing. Computa- use computer nderstand lin- while NLP tries uter to under- e top answer ce explanation	ng	Attack	V fa
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Based on [[WP:MOS]], merged in one article the most used term (similar!) Tim	with the title of Enhancing		Attack	V
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Deliberative model

-	Act	Relation	Frame
- - - -	Providing evidence	Attack	Verifiability and factual accuracy
 -	Recommending an act	Support	Writing quality
be of ire	Enhancing the understanding	Attack	Writing quality
	Asking a question	Neutral	Verifiability and factual accuracy
CL	Enhancing the understanding	Neutral	Verifiability and factual accuracy
	Socializing	Neutral	Dialogue management

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