Rationality (Online Discussions/ Discussion Quality)

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KEYWORDS

rationality, deliberation, deliberative quality, online discussions, discussion quality, discourse quality, arguments, reasoning, evidence, justification

BRIEF DESCRIPTION

Rationality is considered the most important dimension to assess the deliberative quality of online discussions. In quantitative content analyses, it is usually measured with a set of variables, including (among others) reasoning, justification, fact claims, evidence, additional knowledge, and topic relevance.

FIELD OF APPLICATION/THEORETICAL FOUNDATION

Most studies on online discussions draw on deliberative theories to measure the quality of their discourse (e.g., Esau et al., 2017; Friess et al., 2021; Rowe, 2015; Ziegele et al., 2020; Zimmermann, 2017). Deliberation is an important concept for the study of (political) online discussions (Ziegele et al., 2020). It focuses on a free and equal exchange of arguments to bridge social differences and legitimize political decisions (Dryzek et al., 2019; Fishkin, 1991, Habermas, 2015). Rationality is considered the most important dimension of deliberative quality, which is inherent in most conceptualizations (Frieß & Eilders, 2015). Rationality is primarily about reasoning, justifications, and facts (Engelke, 2019). Discussion participants should provide justifications and evidence to support their positions (Friess et al., 2021). These reasons and arguments must be both criticizable and verifiable or falsifiable (Esterling, 2011; Habermas, 1995). Counterarguments and different perspectives should also be included (Engelke, 2019; Ziegele et al., 2020). This allows the elaboration of the best arguments in the deliberation process and an informed opinion formation based on these arguments ("the unforced force of the better argument", Habermas, 2015). A rational discourse and a constructive discussion atmosphere are also considered necessary for reaching a rationally motivated consensus, a central aim of formal deliberation (Cohen, 1989; Friess & Eilders, 2015; Stromer-Galley, 2007).

REFERENCES/COMBINATION WITH OTHER METHODS OF DATA COLLECTION

Besides quantitative content analyses, the (deliberative) quality of online discussions is examined with qualitative content analyses and discourse analyses (e.g., Graham & Witschge, 2003; Price & Capella, 2002). Furthermore, participants' perceptions of the quality of online discussions are investigated with qualitative interviews (e.g., Engelke, 2019; Ziegele, 2016) or a combination of qualitative interviews and content analysis (Díaz Noci et al., 2012).

Cross-references

Rationality is one of five dimensions of deliberative quality in this database written by the same author. Accordingly, there are overlaps with the entries on <u>interactivity</u>, <u>inclusivity</u>, <u>explicit civi-</u> lity, and <u>storytelling</u> regarding theoretical background, references/combinations with other methods, and some example studies.

INFORMATION ON HEINBACH & WILMS (2022)

Authors: Dominique Heinbach & Lena K. Wilms (Codebook by Dominique Heinbach, Marc Ziegele, & Lena K. Wilms)

Research question: Which attributes differentiate



moderated from unmoderated comments?

Object of analysis: The quantitative content analysis was based on a stratified random sample of moderated and unmoderated comments (N = 1.682) from the German online participation platform "#meinfernsehen202" [#myTV2021], a citizen participation platform to discuss the future of public broadcasting in Germany.

Time frame of analysis: November 24, 2020 to March 3, 2021

INFO ABOUT VARIABLES

Level of analysis: User comment

Variables and reliability: see Table 1

Values: All variables were coded on a four-point scale (1 = clearly not present; 2 = rather not present; 3 = rather present; 4 = clearly present). Detailed explanations and examples for each value are provided in the Codebook (in German).

Codebook: in the appendix of this entry (in German)

INFORMATION ON ZIMMERMANN (2017) Author: Tobias Zimmermann

Research question: Which role do online reader comments play for a deliberative-democratic understanding of a digital public sphere? (p. 11) Object of analysis: To compare discursive participation online and offline, the author conducted a full-sample content analysis of online reader comments (N = 1.176) and letters to the editor (N= 381) from German local newspapers on three similar conflicts in local politics concerning the renaming of streets and squares. Because the coding scheme was based on the discourse quality index (DQI), only contributions that contained a demand were included in the analysis, that is, "a proposal on what decision should or should not be made" Steenbergen et al., 2003, p. 27). Only then, a speech act is considered relevant from a discourse ethics perspective.

Time frame of analysis: June 2012 to May 2013

Dimension	Measure	Definition	Krippendorff's α (ordinal)
Rationality	Topic relevance	Does the comment refer to the topic of the post?	.70
	Fact claims	Does the comment contain at least one objectively falsifiable statement with a claim to truth?	.78
	Reasoning	Does the comment contain at least one justification to support a state- ment (e.g., an assertion, opinion, or claim)?	.73
	Solution proposal	Does the comment contain at least one suggestion on how to resolve problems or issues?	.75
	Additional know- ledge	Does the comment contain additio- nal information that is of a know- ledge nature of and adds content-re- lated value?	.72
	Genuine questions	Does the comment contain at least one question with a genuine need for information, e.g. questions of knowledge, understanding, justifica- tion or opinion?	.75
			n = 159, 3 coder

 Table 1. Variables and reliability (Heinbach & Wilms, 2022).

INFO ABOUT VARIABLES

Variables: Based on the DQI (Steenbergen et al., 2003) the author operationalizes the level of justification as an indicator for rationality. This variable distinguishes four levels of justification (p. 164). Besides the ordinal variable "Level of justification", the author also uses a dichotomous measurement to distinguish between substantiated and unsubstantiated claims.

Level of analysis: Individual contribution **Values:** see Table 2

Reliability: Intracoder reliability was tested on a subset of 100 comments. The ordinal variable "level of justification" exceeded a Krippendorff's Alpha above .73. The dichotomous variable "justification" reached a Krippendorff's Alpha of .75 (p. 200-201).

Codebook: pp. 159-185 (in German)

INFORMATION ON ZIEGELE ET AL. (2020)

Authors: Marc Ziegele, Oliver Quiring, Katharina Esau, & Dennis Friess

Research questions: RQ1: "Which news factors predict the civility and rationality of reactive user comments?" (p. 869) RQ3: "Which illustration factors predict civil and rational reactive user comments?" (p. 871)

Object of analysis: The quantitative content analysis was based on a sample of top-level comments (i.e., comments responding to the article) from the Facebook pages of nine established German news media outlets (N = 11.218). Three artificial weeks were constructed for the sampling of news articles and user comments. On each access day, three or four news articles and the corresponding user comments were randomly selected from each news page. Then, for each article, the oldest five top-level comments, the most recent five top-level comments from the middle of the discussion, and the five most popular comments were selected (20 comments per article) (pp. 872-873).

Time frame of analysis: May 2015 to August 2015

Variable	Value	Definition	
Level of justi- fication	No justification	The author makes a demand without justifying it ar mentatively. The demand stands for itself.	
	Indirect justification	The author introduces an argument but its connection to the demand is incomplete, or its justification is not falsifiable.	
	Qualified justification	An argument substantiates a demand. A (falsifiable) link is made as to why one should expect that X cont butes to or detracts from Y.	
	Detailed justification	At least two complete justifications are given, either two complete justifications for the same demand or complete justifications for two different demands (broad justification). Or one justification explains the represented position in depth from several points of view (deep justification).	
Justification	No justification	A user makes a demand that X should (not) be done happen without giving a justification.	
	Justification	A user substantiates a demand why X should (not) be done or happen.	

Table 2. Variables and values (pp. 163-166; p. 188).

INFO ABOUT VARIABLES Level of analysis: User comment Variables and reliability: see Table 3 Values: "Each factor was coded on 3-point scales (0 = absent, 1 = sporadically present, 2 = highly present)" (p. 874).

Table 3. Variables and reliability (p. 874).

Dimension	Measure	Definition	Krippendorff's a
Rationality	Topic relevance	Is the comment on-topic?	.67
	Balance	Does the comment include a balanced view on the commented issue?	.74
	Additional know- ledge	Does the comment contain addi- tional knowledge?	.79
	Elaboration	Does the comment appear elabo- rate to the coders?	.81
	Arguments	Does the comment provide rea- sons for its claims?	.74
	Analytical	Does the comment analyze the background of the issue at hand?	.70
	Factual claims	Does the comment provide facts and factual claims?	.72
	Questions	Does the comment include genui- ne questions?	.80
			n = 100, 9 coders

EXAMPLE STUDIES

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