An analysis of modal (pragmatic) functions of gesture

Farina Freigang and Stefan Kopp

farina.freigang@uni-bielefeld.de, skopp@techfak.uni-bielefeld.de
Faculty of Technology, Center of Excellence “Cognitive Interaction Technology” (CITEC)
Collaborative Research Center “Alignment in Communication” (SFB 673)
Bielefeld University, P.O. Box 100 131, D-33501 Bielefeld, Germany

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When humans communicate naturally, a lot more is transferred than just the semantic content. The meaning of an utterance is enhanced by verbal pragmatic markers but also by gestural and other non-verbal signals in order to classify the semantic content of the utterances (Wharton, 2009). Senders want to communicate their convictions, viewpoints, knowledge, attitudes, among others. These signals are not discourse related, they merely support the recipient to arrive at the correct interpretation that was intended by the sender. Recipients perceive those signals overlaid to the semantic content and integrate everything into a congruent message. We define such signals as modal (pragmatic) functions1, a sub-category of pragmatic functions. This notion is related to Kendon’s (2004) modal functions which “seem to operate on a given unit of verbal discourse and show how it is to be interpreted” (p. 225) as, e.g., to “indicate what units are ‘focal’ for their arguments” (Kendon, 1995, p. 276). Aside from individual articles, a recent summary of gestures that take up pragmatic functions by Payrató and Teßendorf (2013) mentions various gestures with certain recurrent form features/gesture families and the corresponding pragmatic functions, e.g., away gestures (Bressem & Müller, 2014, p. 1599) “to mark arguments, ideas, and actions as uninteresting and void”.

Our focus is particularly on how gestures realise the functions and, thus, highlight, downplay or quantify a unit of an utterance. We advocate a full account of modal (pragmatic) functions tackled in an empirical approach and with the necessary amount of detail, partly carried out in our previous work (Freigang & Kopp, 2015, 2016). The scope of the modal markers can be identified by co-occurring prosodical cues, since there are also modal and affective tones in prosody (Lu, Aubergé, & Rilliard, 2012) and nuclear accents align with gesture strokes (Ebert, Evert, & Wilmes, 2011). However, “no clear notion of pragmatic gesture is available, neither in the area of (linguistic) pragmatics nor in gesture studies” (Payrató & Teßendorf, 2013, p. 1536) and discussing the mappings between modal (pragmatic) functions in gesture and existing linguistic frameworks is even a step further. In gesture research, terms such as speech acts (illocutionary markers in particular), communicative intend and interpersonal markers are employed, however, they cannot be related to gestures as strongly as on a lexical, grammatical or speech level. Mello and Raso (2011) studied the linguistic categories illocution, modality (epistemic, deontic, etc., for more details cf. e.g. Petukhova and Bunt (2010)) and attitude with special attention to the pragmatics-prosody interface. In an experiment, they tested the effects of changed prosodic markers and found that

1We use this terms instead of the previously adopted term “modifying functions” (MF), which refers to modifications on a grammatical level, e.g. adjectives modifying noun phrases (Smith, 2010). The term “modal” function implies a modification on a semantic-pragmatic level.
only prosodic markers for illocution and attitude are salient in prosody. The linguistic categories are central objects of analyses since they are discussed by pragmaticians dealing with modal utterances (e.g., Coates (1990)).

In this talk, we present an analysis of the modal pragmatics-gesture interface. We were interested in whether similar gestures are produced when a sender tries to express a certain illocutionary speech act, modality or attitude. Inspired by the Petukhova and Bunt experiment, and as a first approach to this phenomenon, we asked a naïve participant to utter a particular sentence also making use of body language. Two types of sentences were presented: one with spacial configurations (Das Haus hat ein spitzes Dach./The house has a peaked roof.) and one sentence with metaphorical meaning (Jemand holt die Kuh vom Eis./Someone takes the cow off the ice. – meaning someone solves a problem). The sentences either had several underlying functions or were intended to be uttered with a certain attitude. Surprisingly, we found similar gestures compared to the MF which we analysed in corpus of natural interaction data. (1) Abstract deictic gestures were used for directives (illocutionary speech act), (2) beat gestures were produced with an utterance of modality and with sentences with authority, and (3) for sentences expressing obviousness and indifference, Palm Up Open Hand gestures, brushing and shrugs were used. This suggests that there may be some recurrent pragmatic gestures independent of the study design (in natural and artificial interaction).

References


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