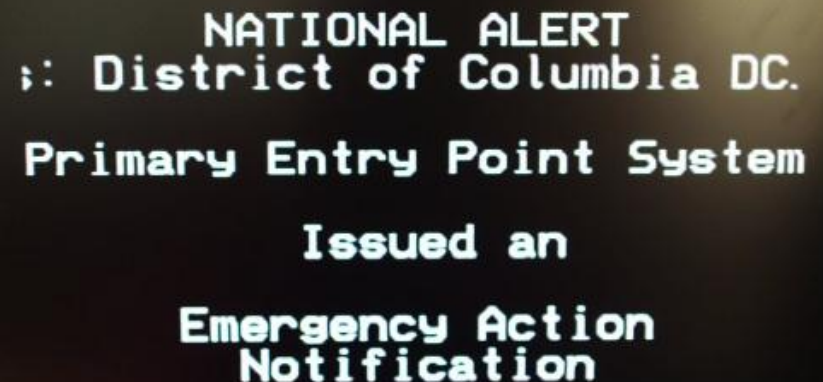


Emergency Communication and Conversation Analysis

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- Emergency communication (EC) is more than knowledge transfer about disaster.
- Empirical analyses of the ways people are “doing being in emergency situations” give insights about critical factors.
- Ethnographic *Conversation Analysis* provides methods about interactive co-constructions of EC.
- Research and reprocessing the empirical research up to date is necessary
- Elaboration of trainings must be based on this research



NATIONAL ALERT
: District of Columbia DC.
Primary Entry Point System
Issued an
Emergency Action
Notification



example



Toxic gas alert?? (Meitingen, 6-6-2014)

➔ Need for “**effective communication**”. But:

Starting point: „**Language... is inherently underspecified...** That is, no matter what anyone says, their utterances can never completely convey all of the potential or even relevant meanings about a given situation at any moment in time: There is always more that could be said.“

Kidwell, Mardi (2000). Common ground in cross-cultural communication: sequential and institutional contexts in front desk service encounters. In *Issues in Applied Linguistics*, 11 (1), 34

SOURCE

**ATTENTION
ATTRACTOR**

**Coding
components
(in written
texts)**



Please make your way to the nearest exit.

**EXPLICATION
OF TROUBLE
SOURCE**

REQUEST

Analysis of interpersonal interaction

definitions

- **Conversation Analysis (CA)** is an approach (Social Sciences and Applied Linguistics) that aims to describe and analyse talk as a basic and constitutive feature of human social life.
- **Methods:** Analyse transcriptions of video/audio-recorded, naturally occurring talk-in-interaction (sequences of local, *in situ* organizations of conduct)
- **Objectives:**
 - discover how participants receive linguistic units and respond to one another in their turns at talk, with a central focus on
 - how sequences of action are generated; in general:
 - to uncover the often tacit reasoning procedures and linguistic competencies underlying the production and interpretation of talk in organized sequences of interaction.“

Conversation Analysis (Ethnographic Discourse Analysis)

theory and
applications

Questions concerning
Intercultural Emergency Communication:
How do co-participants express, deal with specific
- situational (emergency) and
- interpersonal factors (emotions, language barriers)?

Recent research:
Co-participants use multimodal means for interpersonal
communication;
Conversation analysis developed corresponding transcription
techniques.

Nonverbal and paraverbal linguistic means are no longer
considered to “accompany” verbal expressions, but:

Utterances are compositions of different modes (multimodality)

Conversation Analysis (Ethnographic Discourse Analysis)

theory and
applications

Task here:

Describing co-constructions of emergency based on cases where people are “doing emergency” in intercultural contexts, using multimodal means (voice, gestures, face expressions, sounds...)

Paradox:

Actual research tendencies tend towards more complexity: from “conveying information” to the “co-construction of speech events using multimodal expressions”



Need for simplifying language use because of intercultural situations

Recapitulation of problem areas:

EC deals with (interpersonal) Communication under the conditions of

concepts

- **External forces** create unexpected situation (no routines)
- **Externally caused emotional feelings:**
culture specific expression and interpretation of emotions
- **interculturality:** culture specific knowledge (em. situations);
values (power/hierarchies; uncertainty management...);
problem solving habits/strategies
- **Missing common language:** asymmetric linguistic knowledge
and different use of linguistic conventions in L1 and L2

Objectives:

- **Empirical studies in order to detect** (and then provide in ic trainings) **the range of semiotic means used by co-participants**

Multicodal and multimodal expressions

definition

Code use that is *in opposition* or *in congruence*, that *supports* or *weakens* the message conveyed in the other code.

Each element is part of one linguistic unit, containing (Gestalt, meaning more than the sum of its components); combinations and interactions of two or more codes, e.g.

- verbal, paraverbal and nonverbal expressions (gestures, facial expressions, body orientations, clothing, proxemics)
- written language (including different graphics , pictures)
- Spoken and written language combined into one expression

Here:

∅ + N∅ + N∅! +



Multicodal and multimodal expressions



Tranferred into

interpersonal communication:

Attention attractor: vocal

Reinforcement: colour
 interpunctuation

Trouble source: circle

Message: written text

Speech act: ORDER to...

Nonver bal expressions ASK for...
(smile, body movement)

=> One expression/notice, one composition of meaning



Simplification/strategies

simplification



Lexical



syntactic



stylistic



LEXICAL: “process and/or result of making do with *less words*” ...”

(Blum-Kulka/Levenston 1983, 119)

Strategies (in translating texts):

- Use of superordinate terms when there are no equivalent hyponyms
- Approximation of the concepts in L1 and L2
- Use of ‘common-level’ or ‘familiar’ synonyms
- Use of circumlocutions instead of conceptually matching high-level words or expressions
- Use of paraphrases where cultural gaps exist

Simplification/strategies

simplification

↓
Lexical

↓
syntactic

↓
stylistic



SYNTACTIC: “process and/or result of making do with *less words*” ...”
(Blum-Kulka/Levenston 1983, 119)

Strategies (in translating texts):

- Use finite clauses (instead of non-finite ones)
- Avoid embedded sentences (relative clauses..)



ALARM!

Simplification/strategies

simplification



STYLISTIC: “...” (Blum-Kulka/Levenston 1983, 119)

Strategies (in translating texts):

- Break up long sequences and sentences
- Replace elaborate phraseology with shorter collocations
- Avoiding repetitions and redundant information
- Shorting overlong circumlocutions...

Resume: there are simplifications in all the modalities listed above (including the nonverbal, paraverbal etc. ones)

Reducing complexity and increasing the communication modes, could sharpen the comprehensibility (see research done by Temnikova and others 2012)).

Simplification/strategies

simplification

MULTIMODAL APPROACH

Communication through images, sounds, gestures, facial expression, finger movements, body postures/movements, use of space...

O'Malley, J. Michael/Chamot, Anna Uhl (1995⁴). Learning strategies in Second Language Acquisition. Cambridge: CUP, p. 41/42)

- Multimodal presentation:
distinctive distribution of all lexical, iconic and other nonverbal items (e.g. lipreading)
- Use of each mode (type of sign)
according to his function and best comprehensibility
- Combination of linguistic tools into a whole (Gestalt):
Synchrony and mutual “synergy” of all linguistic units used

See Kleifgen, Jo Anne (20xx) Multimodality and Learning in a High-Tech Firm. New York: Routledge

A complex, but “good”, well formed Gestalt = simple to understand

Emergency communication

Actions	Communicative tasks	interaction	Modalities/ codes
identification/classification of emergency event, its components and possible consequences	reviewing, hypothesis building, anticipating...	1:1 1:x persons	oral (verbal, nonverbal, paraverbal)
providing visual information about an emergency situation	structuring the knowledge transfer	./.	written (words, signs, icons)
oral <i>in situ</i> information about an emergency situation	co-constructing the type of event, dangers/implications, consequences/com mands	1:1 1:x persons	oral, written

Resumee

Hypotheses

- Communication:
Communication is a co-constructed process,
co-participants use multimodal signs
- Communication effectiveness:
is not (only) reached, if inputs are complete, „well“
presented...
but: if the „whole“ of the information is designed for an “easy”,
effective interpretation, by using a recipient design (people o C2)

Bees



effective communication?



menace?





example



Poison alert?? (Meitingen, 6-6-2014)

Starting point: „Language... is inherently *underspecified*... That is, no matter what anyone says, their utterances can never completely convey all of the potential or even relevant meanings about a given situation at any moment in time: There is always more that could be said.“

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example



Poison alert?? (Meitingen, 6-6-2014)

Ending point: „In the data presented here, student’s utterances in the request slot were not only *underspecified*, but, in their nonnative-like formulations, they were frequently *misspecified* as well.“

Kidwell, Mardi (2000). Common ground in cross-cultural communication: sequential and institutional contexts in front desk service encounters. In *Issues in Applied Linguistics*, 11 (1), 34

INCA – Intercultural Competence Assessment

Basic competence	Intermediate comp.	Full competence
<p>* improvises short-term, one-off tactics for bridging communication gaps; attempts to relate problems of intercultural interaction to different communicative conventions, but lacks the necessary knowledge for identifying differences;</p> <p>* tends to hold on to his own conventions and expects adaptation from others; is aware of difficulties in interaction with a non-native-speakers, but has not yet evolved principles to guide the choice of strategies like metacommunication, clarification or simplification.</p>	<p>* begins to relate problems of intercultural interaction to asymmetric native-speaker/non-native-speaker (NS/NNS-) language competences and conflicting communicative conventions;</p> <p>* attempts to clarify his own or to adapt to the conventions of others;</p> <p>* uses a limited repertoire of strategies (metacommunication, clarification, simplification) to solve and prevent problems when interacting with a non-native-speaker.</p>	<p>* relates problems of intercultural interaction to conflicting communicative conventions and is aware of their effects on the communication process;</p> <p>* is able to identify (and ready to adapt to) different communicative conventions or to negotiate new discourse rules in order to prevent or clarify misunderstandings;</p> <p>* uses a variety of strategies (metacommunication, clarification, simplification) to prevent, to solve, and to mediate problems when interacting with a non-native-speaker.</p>

Further research

Hypotheses

In the future, research should be done in areas like

- Communication under stress :
Do people from C2 fall back into their language and culture specific routines of speaking and interpreting??
- Institutional Communication and its restraints/possibilities (sequential order; display of emotions; choice of topics; see Zimmerman-case)
- Segmentation and classification of the effects of linguistic tools (within its multimodal context)
- Create standard emergency communications procedures (see

Zimmerman, Don (2011). Fire fighters safety and survival. Burlington MA:Jones&Bartlett



The end

Literature and readings

Readings

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