Communication Failures in Everyday Conversations: 
a Case Study Based on the “Retrospective Commenting Method”

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Abstract

The paper deals with communication failures in everyday spoken discourse. The spontaneous character of oral speech is its basic property and becomes a prerequisite for the appearance of such a phenomenon as communicative failures. By communicative failures, we mean speech situations when the recipient of a speech message does not understand it correctly, i.e., in the way the speaker intended. The purpose of this pilot study is 1) to assess the total number of communication failures that occur with a person during a single day and 2) to determine the dependence of communication failure frequency on the communication settings and conditions. The main result of the study is a qualitative and quantitative assessment of communication failures during a subject’s day. The research is based on a special experiment based on 24-hour monitoring of the subject’s speech and his subsequent retrospective commentary on all recorded data. Such an approach allows one to reduce the subjectivity inherent in much linguistic work. The research continues a series of studies devoted to the effectiveness of spoken communication and is important not only for understanding the fundamental processes of speech perception but is also crucial for the development of artificial intelligence systems involving human-computer speech dialogue systems and for speech technologies of the next generation.

Keywords: everyday speech communication; spoken Russian; dialogue structure; speech corpus; oral discourse; miscommunication

DOI: 10.28995/2075-7182-2021-20-514-523
Introduction

The research continues a series of studies devoted to the effectiveness of spoken communication. The spontaneous character of oral speech is its basic property and becomes a prerequisite for the appearance of such a phenomenon as communicative failures. By communicative failures, we mean speech situations when the recipient of a speech message does not understand it correctly, i.e., in the way the speaker intended.

The causes and risks of miscommunication have been widely discussed in the research literature (see e.g. [1; 2; 3; 4; 5; 6; 7; 8; 9; 10]). However, there is very little evidence about the frequency of communication failures.

If people are asked whether they have had any communication failures during a day, they usually say one or two or just none. One example of this is the experiments aimed at counting communication failures during a single day by a group of philology students at the National Research University Higher School of Economics, St. Petersburg. The students were asked to keep a “miscommunication diary” and register all communication failures they have. The number of communication failures turned out to be from 0 to 2 on average. A comparable experiment was conducted among students at Helsinki University and the results were similar. This means that we usually do not identify and register communication failures even in a situation where we should collect them. In everyday life, people remember only the most drastic communication failures which have had serious or amusing consequences.

There are some quantitative studies on very specific communication situations, e. g. in conversation concerning railway and air traffic control [11; 12] and health care contexts [13]. However, there is very little data on the frequency of communication failures in everyday settings, Ermakova’s and Zemskaya’s study [14] being an exception. On the basis of a large amount of authentic material, they arrived at the conclusion that communication failures are more frequent in everyday speech with family members and good friends than in conversation with strangers. The results sound paradoxical but there are good reasons for this [15; 16].

Ermakova’s and Zemkaya’s study is rich source of materials and has been carried out very thoroughly but is suffers from a methodological gap which is a major problem in research on miscommunication. If a researcher examines interaction between people as an observer or uses video or audio recording, s/he is unable to identify all the instances of misunderstandings. As shown e.g. in [17; 18; 19; 20], misunderstandings are often latent or covert. Recipients tend to apply the “let it pass” tactic [21]. There are various reasons for not asking for clarification in the case of misunderstanding: (1) the topic is not interesting for the recipient; (2) s/he thinks that s/he has already understood enough; (3) s/he believes that s/he will later understand what was said; (4) s/he does not want to interrupt the course of interaction; (5) s/he does not want to show her/his ignorance.

The purpose of the study presented in this paper was 1) to assess the total number of communication failures that occur with a person during a single day and 2) to determine the dependence of communication failure frequency on the communication settings and conditions.

The “Retrospective Commenting Method” and Methodology

In [22] a new methodological tool was presented to gain a deeper insight into the problems of communication. The “Retrospective Commenting Method” (RCM) aims to tackle the weakness of other methods by working afterwards on a recorded material with the informant. The new method is quite laborious but enables one to get more precise information on what really took place in a conversation.
The main stages of the methods are the following (see in detail [22]):

1) The first stage consists of recording all the communication the informant has had during one day. This takes place within the “One Day of Speech” project which is currently being conducted at Saint Petersburg University [23; 24; 25; 26]. This material is valuable as such, and much research has been done on the basis of “one day communication packages” of more than one hundred informants. Before the recording, the subject was asked to note the situations of miscommunication during the day of recording [22].

2) What is new in the RCM is the second stage, namely the way the recorded material is analysed. It takes place with the active participation of the informant. S/he (she in the pilot study) goes through the whole recorded material with the researcher, commenting on what really occurred in the communication settings she had during the day. Before listening to audio recording together with the researcher, the participant was told that she should note and comment the following aspects of her recorded communication:

- The main task was to distinguish and describe miscommunication situations and any other types of communicative failures (e.g., when something was understood in a different way from what was intended by the speaker, when the participant did not understand something from the speech of her interlocutor but chose to pretend that everything was fine, or when the informant believed that she was misunderstood, etc.).

- Then, she should explain to the researcher any communication situations that a stranger could not understand correctly. It included description (clarification) of the communication context or some phrase/word meaning: (Here, I am talking about…), attribution of emotions (e.g., At this moment I am very annoyed, but I try not to show it.), explanation of her dialogue tactic (e.g., I am speaking this way because…), revealing hidden humour, irony, or language play (Here, I am being ironic.), etc.

The researcher was listening to the recording with the participant, they discussed the recording together and this discussion was also recorded. The examination of one day’s material took three days in the pilot study [22].

The total amount of audio material received was 22.5 hours: 8.5 hours of source material and 14 hours of recording of the commenting process.

Experiment participant: woman, 40 years old. Profession: actress, art critic, and university professor. During the day, the informant interacts with:

- her mother;
- her daughter;
- her husband;
- a doctor at an outpatient clinic;
- her colleagues;
- her students;
- and occasional strangers.

3. Results: Daily Communication Failures in Numbers

The experiment shows that the retrospective commenting method enables one to go much deeper into decisions made by interlocutors than a normal examination of recorded material by the researcher her/himself alone. However, the job of informant is not always easy. What is most difficult to identify are those communicative failures in which there is no obvious conflict of interests and opinions. Another unclear situation occurs when the interlocutor stops communication (for example, leaves the room) or simply abruptly changes the topic of conversation. For the informant, being unable to read the interlocutor’s thoughts in detail, it is difficult to identify the presence of a communication failure.

A further observation on the process of analysis of the material by the informant was that from the 19 communication failures, she identified only 13 instantly. The remaining 6 required the involvement of the assisting researcher.

The most surprising and important result was the total number of communication failures that occurred during the day, being as many as 19. Naturally, it is also interesting to see which categories they belong to. In analyzing them, we apply the following criteria of classification:
place of communication and recipient;
• reasons for communication failures;
• resolved or unresolved communication failure.

Table 1 shows the distribution of communication failures, depending on the place of communication and recipient. According to the data, 10 (53%) of the total number are communication failures that occurred in the informant's home during communication with relatives. There were 5 failures at work and 4 in public places.

The main conclusion which can be made on the basis of this table is the great variety of reasons for communication failures, four being the highest number. There are slight differences in the numbers concerning domestic and external conditions, but one cannot see on that basis any reliable differences. Each type will be described in more detail below.

<table>
<thead>
<tr>
<th>Place of communication</th>
<th>Participant</th>
<th>Total number</th>
</tr>
</thead>
<tbody>
<tr>
<td>At home (53%)</td>
<td>Mother – 6</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Daughter – 4</td>
<td></td>
</tr>
<tr>
<td>At work (26%)</td>
<td>Students – 3</td>
<td>5</td>
</tr>
<tr>
<td>Other places (medical center,</td>
<td>Colleagues – 2</td>
<td></td>
</tr>
<tr>
<td>university) (21%)</td>
<td>Doctor – 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Strangers – 3</td>
<td></td>
</tr>
</tbody>
</table>

Table 1: Distribution of communication failures depending on the place of communication and the interlocutors (recipients)

Table 2 presents the reasons for communication failures that occurred during the day of recordings divided into two groups: domestic and external.

<table>
<thead>
<tr>
<th>Reasons</th>
<th>Domestic</th>
<th>External</th>
<th>Total number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lack of interest in communication</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Emotional effect</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Insufficient volume (noise)</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Distortion of information</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Opinion imposition</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Wrong interpretation</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Incomplete information</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Abrupt change of topic</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Joke</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 2: The main reasons for communication failures

Finally, Table 3 illustrates the ratio of resolved and unresolved communication failures.

<table>
<thead>
<tr>
<th>Type</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolved</td>
<td>61%</td>
</tr>
<tr>
<td>Unresolved</td>
<td>33%</td>
</tr>
<tr>
<td>Ambiguous</td>
<td>6%</td>
</tr>
</tbody>
</table>

Table 3: The ratio of resolved and unresolved communication failures

Unresolved communication failures are understood as those episodes of communication in which no attempt is made to clarify the situation (e.g., the interlocutor leaves the room or changes the topic). We may see that in our data one third of all communication failures remained unresolved.
4. Examples of Communication Failures and Their Settings

Let us have a look at some concrete examples of communication failures. As was shown, the most frequent reason for communication failures is a lack of interest in communication.

4.1. Lack of interest in communication

Case 1

- Participants in the communication: A — the informant; B — informant's mother.
- Setting: at home.
- Communication time: morning.
- Situational context: a dialogue about one of the informant’s acquaintances.
- Transcript:

  B: Eto pacient psikhiiatora //
  A: Da / da //
  B: I ty ego podvodi k etomu //
  A: Tak on voobshche // On prinimaet to, chto etot emu...
  B: Tak / a pochemu on ne idet?
  A: On / pr... prinimaet / net // Oni obshchalis' // On prinimaet to / chto tot emu skazal //
  B: Da?
  A: Da / na noch' tam dlya sna chto-to //

- Translation:

  B: He is a psychiatric patient //
  A: Yes / yes //
  B: And you should hint it to him //
  A: So he generally // He takes pills which the doctor...
  B: So / why doesn’t he go?
  A: He / ta... takes / No // They communicated // He takes pills that / that the doctor told him //
  B: Yes?
  A: Yes / he takes something to sleep at night //

- Communication failure: resolved.
- Comment: Although a person is busy with something, family members often continue to communicate with her/him. Here the informant is looking for documents to visit the clinic and her mother tries to involve her in communication. As a result, the answers become short and rather meaningless. The informant apparently does not pay due attention to the dialogue. However, when the informant clearly explains his thought, the communication failure becomes resolved.

Case 2

- Participants in the communication: A – informant; B – her colleague.
- Setting: in the university.
- Communication time: afternoon.
- Situational context: the informant tries to relax in the teaching room. Her colleague enters the room and begins to tell a story about his relatives.
- Transcript:

  B: I vot posle etogo on chetyre goda umiral //
  A: Oj //
  B: Rany vse poootkryvalis' / a serdce zdorovoe // On uzhe ego i pris-tretit' prosil //
  A: Von kakie organizmy na svezhem vozduke // Nu vot eto vse / gorodskie / navernoe / stol'ko ne zhivut //
4.2. Opinion imposition

Case 3

- Participants in the communication: A – informant; B – the informant’s daughter.
- Setting: at home.
- Communication time: morning.
- Situational context: the informant’s daughter wakes up. The informant is going to play a goose game they have invented with her daughter.
- Transcript:

  A: Tak / nu davaj / kotenok // Ga-ga //
  B: Maaa //
  A: Chto? Chto snyat' khalat? Tak / rubashka …
  B: Mam / a zchem ty snyala zapis'? 
  A: Davno vstala / davno umylas' // Ya kak-to segodnya rannyaya ptashka //
  B: Da ne // Pochemu ty / nu vot? 
  A: Chto pochemu? 
  B: Mam / a pochemu ty nu vot snyala vot etu zapis'? 
  A: Ono vse ravno zapisyvaet / v komnate mozhno vot tak //

- Translation:

  A: So / come on / Kitten // Ga-ga //
  B: Mum//
  B: Mum / why did you take the recorder off? 
  A: I got up a long time ago / washed my face a long time ago // I’m an early bird today //
  B: No // Why are you / this? 
  A: Why what? 
  B: Mum / why did you take this recorder off? 
  A: It is recording / it is possible to do this in the room //

- Communication failure: resolved
- Comment: Communication with children deserves special attention and an appropriate recipient design. Parents in most cases are not fully involved in children’s games but respond with routine phrases. In this case, the informant tries to impose her opinion on the child (to predict what the
4.3. Emotional effect

Case 4

- Participants of communication: A – informant; B – a stranger.
- Setting: in the university.
- Communication time: afternoon.
- Situational context: a security guard at the university asks the informant to escort a man to the office he is looking for.
- Transcript:

  A: A voobshche / eto – prepodavatel'skaya //
  B: Davajte snachala nachnem s vas //
  A: S menya ne nado nachinat'! A chto vy hotite? Chto vy hotite?
  B: Tut takaya informaciya proshla // Tut teatr "Vstrecha%" est'.
  A: Teatr na vtorom etazhe // U Zimina%? U Zimina%? U kakogo mastera?
  B: Ne znayu / ne znayu kakogo mastera //
  A: Net / zdes' mastera kursov est' // Chtoby pryamo teatr byl...
  B: Da tak i nazyvaetsya "Vstrecha%" //

  - Translation:

    A: Actually / this is a teacher’s room //
    B: Let's start with you first //
    A: You don't have to start with me! What do you want? What do you want from me?
    B: There was such information // There should be a theatre "Vstrecha%" here.
    A: The theatre is on the 2nd floor // Zimin%'s one? Zimin%'s? Which teacher do you need?
    B: I don't know / I don’t know which teacher //
    A: No / there are teachers of course // I doubt about a theatre...
    B: [Yes] that's what it's called "Vstrecha%" //

Communication failure: not resolved.

- Comment: When talking with the stranger, the informant feels disturbed by his phrase “Let’s start with you first”, which she perceives as his misplaced attempt to flirt. For this reason, the informant becomes uncomfortable and reacts emotionally “You don't have to start with me! What do you want? What do you want from me?”, as if suspecting her interlocutor might be insane or an agent. Such a reaction means that the stranger explains his position and the conversation proceeds. However, the intent of his disturbing remark, which causes miscommunication, remains unknown.

5. Conclusion

The study was based on a special experiment on 24-hour monitoring of the subject’s speech and his/her subsequent retrospective commentary on all recorded data. Such an approach, where a participant of interaction him/herself comments and describes the details of spoken interaction is unique in linguistic corpus studies and allows one to make research less subjective. The method used enables us to get not only qualitative but also some quantitative data on communication failures. To our knowledge, this is the first attempt to get a real picture of the frequency of communication failures in settings of everyday conversation. In this pilot study, we examined only one day’s interaction of a single person. Therefore,
one cannot make far-going conclusions on this basis. However, we got important hints about the frequency and forms of miscommunication in everyday communicative settings.

The main result of the study is a rather large number of communication failures during the subject’s day — 19. If every person in the world meets on average at least 10 communication failures a day, it means that billions situations of miscommunication take place every single day. One can only image the damage caused by them. An unrealistic goal should be to try to free the world from failures in communication totally, but more research could give us tools to reduce their number. Even a small reduction of cases of miscommunication should make the world a better place to life.

A further important outcome of the study is a positive experience of using the retrospective commenting method. The method has, naturally, its own limitations but in comparison to traditional methods, it gives a much more reliable picture of the reality of a face-to-face everyday interaction. In the process of analyzing communication, difficulties arose with settings in which the situation had no outcome. In other words, communication is interrupted for some reason (for example, one of the communication participants leaves the room) or a completely new topic of dialogue is introduced into the communication. These situations need more attention during the commenting process. All in all, the method could provide a deeper insight into other big themes of interactional linguistics, e.g., a realization of the principles of politeness [28] and cooperation [29]. A further topic could be turn-taking, a central question in conversational analysis [30].

As to the concrete forms of communication failures, only very preliminary observations can be made. First, they are very diverse. Altogether eight different reasons were identified. This tells of the main characteristic of everyday interaction: it changes all the time and a setting is never repeated in the same form as it first took place.

A second observation confirms the claim that home is a rather “dangerous place” for communication (cf. [27; 14; 16]). This is a rather controversial discovery, because interaction with people you know well should be much easier than meeting with people without such a common ground. However, as shown in [31], domestic circumstances include some features which are favorable to communication failures. People are relaxed when spending their leisure time and do not always want to concentrate on interaction. They feel overconfident and take risks by relying on common ground. This results in the use of cryptic speech by the speaker and non-listening and overguessing by the recipient.

A third general remark concerns the reasons for communication failures. The study shows that they are very seldom purely linguistic, e.g. ambiguous constructions or vague meanings of words. More often, they come from circumstances and/or poor concentration on interaction by the communicants. Therefore, the main reason for communication failures, regardless of the communication conditions, seems to be insufficient involvement in the communication process. This violates the basic principle of successful interaction – cooperation.

Being the first pilot study of its kind, the results provide important building blocks for better understanding of the fundamental processes of spoken communication. In addition to that, the results should also be considered in the development of artificial intelligence systems involving human-computer speech dialogue systems and for speech technologies of the next generation.

Evidently, miscommunication in spoken interaction needs much more research. An important issue which remains totally unclear, is the borderline between sufficient understanding and non-sufficient understanding (cf. [32; 33]). The results obtained are important for a deeper understanding of the fundamental processes of spoken communication. They should be also taken into account when artificial intelligence systems involving human-computer interaction based on speech technologies are developed.

Acknowledgements

The experiment of longitudinal recording and its Retrospective Commenting Method which gave speech data for the given research was supported by the University of Helsinki. The methodology of longitudinal recording was approved during the creation of the ORD speech corpus, which is being created in St. Petersburg State University and was supported by several grants: the Russian Foundation for Humanities projects # 07-04-94515e/Ya (Speech Corpus of Russian Everyday Communication “One Speaker’s Day”), #12-04-12017 (Information System of Communication Scenarios of Russian Spontaneous Speech). Significant extension of the corpus was achieved in the framework of the project...
"Everyday Russian Language in Different Social Groups" supported by the Russian Scientific Foundation, project # 14-18-02070.

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