## A STURUCTURAL STUDY BETWEEN CHATTING AND CHEATING

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#### ABSTRACT

Internet Relay Chatting (IRC) is a multi-user, multi-channel chat system that is run on a network. It gives people the ability to participate in a synchronous exchange of thoughts with one or more people over a computer network. We present results of a case study based on a survey that investigate the relation between chatting and cheating. Survey results show that more than four in ten participant indicated that they give false information and act dishonestly while chatting. Survey results show that chatting has more negative effects than positive effects. Other interesting results are included in the paper.

**Key words:** IRC, Chatting, Cheating, Country Specific Research, Cyber-Cheating.

## 1. INTRODUCTION

Communication is derived from the Latin verb Communicare, which means to inform, transmit, convey and mediate. According to the dictionary definition [1] communication is "the act of communicating, transmission". It is also defined as "the exchange of thoughts, messages, or information as by speech, signals, writing, or behavior". According to the same dictionary chatting is defined as "to participate in a synchronous exchange of remarks with one or more people over a computer network". Cheating is defined as "to deceive by trickery, or to act dishonestly"[1].

The use of technology, which allows for synchronous, virtual communication, has been steadily increasing over the past years [2]. Chatting refers to a two-way interactive exchange on the Internet. By this way, two or more people at remote computers connect to the same chat "room" and type messages. When someone types a message, the others can see the message on a shared screen. If computers of chatters are equipped with video camera, they can see and hear each other while chatting. Videoconferencing offers, an exemely direct, personal, and engaging form of collaboration. Each user has a nickname and converses with other users either in private or on channel (chat room). Chat rooms are spaces on the Internet, where people may "meet" to discuss topics of mutual interest [4]. There are different types of chat rooms: some are open rooms with no one supervising, and some use electronic monitors that scans conversations for specific words and then issue automatic warnings if they came across inappropriate language.

Online chat has started in 1989 by an instant messaging system, called Zephyr [3]. At the same time America Online (AOL) has also introduced an instant messaging system. In 1997, AOL released a free version of its instant messaging system for non-subscribers. At that time, it became popular as an informal method of communication, mostly for teenagers and college students. Over the past few years, however, instant messaging has become routine for people in all age groups and environments and almost all countries.

To run IRC, we need an IRC program, called a client program. Most client programs are easy to use, menu driven, and highly configurable. An IRC network is a collection of servers linked together. When a person connects to one IRC, he is connecting to one of the servers on that network. By doing so, the user become connected to other users even though they may not be connected to the same service as you. All servers on a network share and have access to the same information. Each server knows who is on the network, which chat room (called "channel") on IRC the user are in, and which servers the user are using. Once the user is connected, he needs to join a channel (chat room).

This research paper tries to investigate if there is any relation between chatting and cheating. The author think that there is a relation, but he is unable to determine whether it is a week or a strong relation and in which areas that the people practice cheating during the chat process. For this purpose, the author prepared an online survey that has been filled by internet users and tries to investigate the relation between chatting and cheating. The obtained results verified many of the beliefs of the author.

We think that chatting whether it involved some cheating or not will significantly impact the behavior and the performance of the internet users. This is regardless if the chatter is a student, a researcher, or even an intruder. Other parties surrounding the chatter might get impact such as friends, parents, teachers, and may be husband/wife. As a result, there will be an overall positive/negative effects upon the society 10] [11].

The paper is organized as follows: Section 2 presents the advantages and disadvantages of IRC. Section 3 presents the environment of the study with the results. Section 4 is the role of chatting on social changes. Section 5 is analysis, discussion, and wrapping issues. Section 6 are conclusions.

### 2. ADVANTAGES AND DISADVANTAGES OF CHATTING

Many internet users like to engage in chatting. Currently, there are many chat rooms, which provide the facility to connect the people around the world instantly. Some of most common are MSN, YAHOO, MIRC etc. At these chat rooms, one can share his/her feelings with the other people, get new friends, have fun, get some relax and many other things.

The reason for participating in chatting varies between people. Among these reasons are: entertainment, killing the time or past time, making friends, inquiring welfare about relatives, gain knowledge and information, and many others.

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The following are the main advantages of using chatting[7] [8]:

- Communication is synchronous and the feedback is immediate.
- Relatively inexpensive.
- The chatter can communicate directly with people he might not otherwise be in touch with such as teachers and experts.
- Help in understanding other cultural when the individuals who do chatting are from different cultures.
- Participation in an online community where the chatter is not judged based on how he looks.

In general, people who have relatives and friends living abroad can remain in touch with them and can talk to them instantly. For example, parents got satisfied after they talk to their sons who are far from them.

Chatting is one of the tools that make people establish relations with others such as consultants(Salminen,2010) It provides extra knowledge and information in less time. Additional advantages include: the possibility of finding a new job or business opportunities, discover other areas that cross the borders, improvement of the skills of language, and improvement of the use of the computers for the chatters. It was observed that some people use the chatting for spending time, however, some of these chatters realized the power of chatting and start using it in a positive order.

On the other hand, chatting has many disadvantages. Following are the common disadvantages:

- Participant need to schedule to meet at a particular time.
- Most chat rooms are mainly for entertainment and have little or no educational value.
- Chat room discussions may become sexual or violent, or they may promote hate against others.
- Because some people feel totally anonymous, they may act any way they want.
- Online relationships with strangers in chat rooms can lead to un prefered means of communication (i.e. to arrange face-to-face meeting).
- Chat room participants can end up hurting each others.

### 3. THE ENVIRONMENT OF THE CASE STUDY

We have study the relation between chatting and cheating. For this purpose, we created an online survey of questions which was filled by 140 internet users (attached at the end), basically located in Arabic world. The survey was online and there was two identicial versions from it where one of them is in Arabic and the second one is in English. Results of the survey showed that 80% of the users of the internet use the chatting and the rest percentage never do chatting in their life. The survey was filled both by males and females and the percentage of males is 54%. The distribution of their ages is listed in Figure 1.

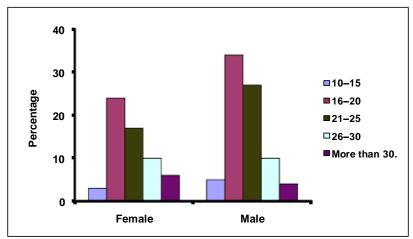


Figure 1: Comparison between Female and Male ages of the sample (Q1,2,4)

The survey investigated the number of times that an individual does chatting. Results have showed that majority do it on a weekly base as can be seen in Figure 2.

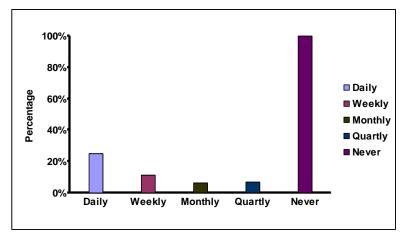


Figure 2: The number of times that the person does chatting (Q6)

The obtained results of the showed that the level of education has a reverse relation with the time spent on chatting. A person who has a high degree of education spends less time on chatting. For example, only 3% of people who has Ph.D. degree practice chatting while this percentage increase to 67% when the chatter is a high school educated.

The survey statistics showed that there are 30% among chatters who did chatting for only once in their life and then stop chatting due to the unsataification of the whole issue (Q 6). It seems that this has some relation with the first time that the person did chatting. Results showed that the majority did chatting for the first time when they are in age 20-24. The age range 35-39 has attracted the minimum number of chatters at that age (Q2). The practice of chatting for the first time is achieved by the individual motivation only in 30% of the cases (Q3). The rest of this percentage gets external help as follows: (20% from a friend, 30% from one of the family members, 23% from an instructor, and 45% from other resources. (Q4).

Regarding the number of hours that the chatter spent on chatting during one week is depicted in Figure 3 (Q8). The place of chatting varies between users and we found that chatters do chatting according to the following order: 1- home (30%), 2- computer at work place (25%), 3- computer lab(15%), 4- Internet café (43%), 5- from a friend home(12%), and remaining counts only 12%. (Q9).

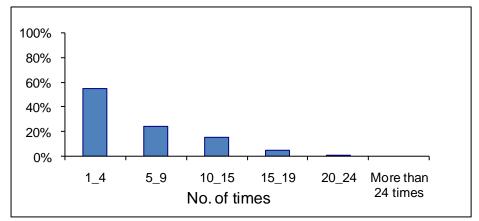


Figure 3: The number of times for doing chatting (Q8)

We have found many preferences for chatters. Among these preferences is the time to do chatting. Results of this are depicted in Figure 4 (Q11). Other observations include the language of chatting. We have found that 95% use their mother language in chatting (Q11). The use of another language creates a misunderstanding in many cases. This creates a misunderstanding problem in about 20% of the cases (Q14). Results showed that around 76% think that chatting improves the second language skills.

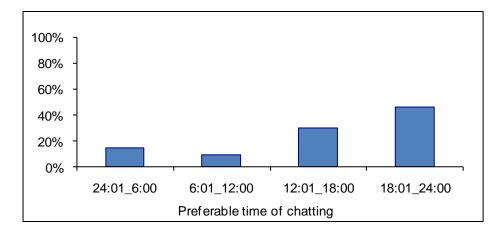


Figure 4: The preferable time for chatting (Q7)

The preferences of the type of chat room vary very widely among chatters. The distribution of the type of the rooms that people prefer to enter is depicted in Figure 5 (Q18)

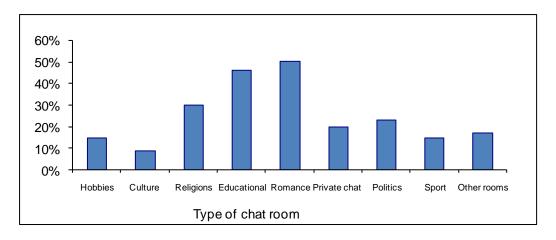


Figure 5: The distribution of the rooms between chatters (Q18)

Please note that Figure 5 shows that the majorinay of the chatters enter the romance rooms. This shows that there is shortage in the personal relations between people that they are trying to compensate. In fact, we have found that the majority (50%) log in the International rooms (the largest) and that only 20% (the minimum) log in the national rooms (Q4).

Although chatting has many forms, but the study found that the majority prefer writing chatting. This percentage makes around 59% of all kinds of chatting (Q19, 20, 22). Other percentages include: writing and voice chatting (34%), voice and live web cam (23%), web cam and writing (35%).

Chatting on web takes many forms. The first form is taking more than on identify. Results confirmed that fact. Figure 6 shows the percentages of people who use more than one identity (Q25). This figure is generated from the following question "What I like about interacting with others online is it for being able to have more than one identity". The percentage 42% confirms this fact when 13% of the chatters agree very strongly on using double identity.

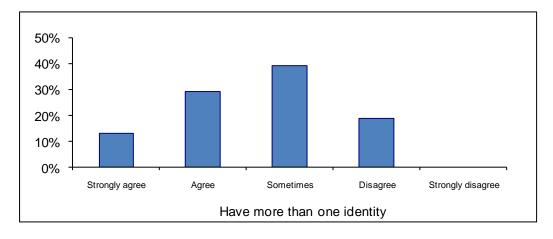


Figure 6: The use of more than one identity (Q23).

The other form of chatting on the web is being anonymous. Results depicted in Figure 7 confirmed this information. This figure is generated from he following question "What I like about interacting with others online is it for being anonymous". The percentage of 87% confirms this fact when 33% of them said that they agree very strongly on being anonymous.

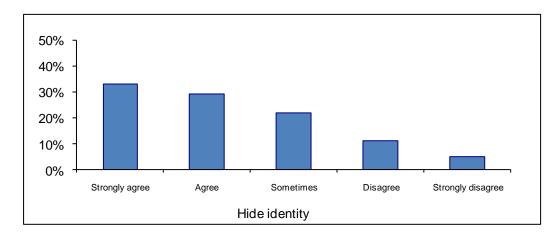


Figure 7: The percentage of people who prefer to be anonymous (Q24)

Chatters prefer to do interact online with others for many reasons. Results of the previous reasons are depicted in table 1.

Table 1: The percentage of interacting online with many others

	Strongly Agree	Agree	Sometimes	Disagree	Strongly Disagree
Response to the chatter is immediately	0.15	0.15	0.50	0.1	0.1
Ability to influence others	0.15	0.15	0.50	0.1	0.1
Chatting with people from different cultures	0.10	0.20	0.40	0.1	0.1
Having the sense of belonging to a certain community	0.15	0.25	0.4	0.15	0.05
Improve self confidence	0.15	0.15	0.5	0.1	0.1
Create new friends	0.3	0.25	0.15	0.18	0.12

Please note the following in Figure 8, the highest answers are belong to sometimes. The reason for this is that many of the respondents are students and they belong to many communities such as family, school, friends, and may be others.

The case study found that there are many benefits for chatting. Among these benefits is improving the writing skills of the chatter, easy way to contact people, discovering other cultures, entertainment, creating friends, and wasting time, and improving job skills.

Chatting as other things has advantages and disadvantages. We found that 49% say that the advantages of chatting are more than disadavangtes. 35% say the opposite and 13 were not able to determine. This verifies our assumption that chatting has more advantages over disadvantages.

Another finding in this survey is the disadvantages of chatting. We should distinguish here between two groups of people, first the people who practice chatting, and those are never practice it. We found that from the people who do not practice chatting on regular base think that 37% is wasting either time or money. From the set of who perform chatting on a regular base, we found that 12% think that chatting has more disadvantages. The distribution of these disadvantages is as follows:

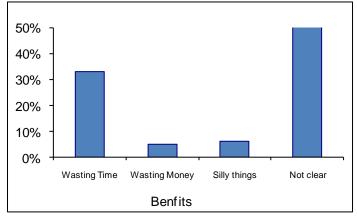


Figure 8: The disadvantages of Chatting

As we mentioned that one of the advantages of chatting is to have friends. We found that the majority of chatters have established a relation with 0-4 persons (Q31). The location of these friends varied. The order of their locations is as follows: Whole world, continental, country, and city (Q32). The type of this relation varies. We found that it is as follows: 30% romance, 40% business, and 30% otherwise. (Q37). The gender was as follows: 30% male, 40% female, and 87% are both male and female. Another interesting finding is that around 45% of the chatters got the chance to meet with their friend (Q37). The established relation honesty was varied [8] [9]. We found that it is distributed as follows:

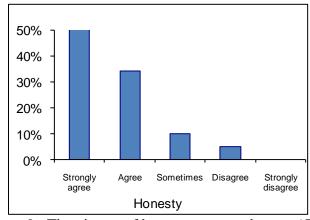


Figure 9: The picture of honesty among chatters (Q35)

Please note that we should distinguish between people who establish friendship through chatting and people who do chatting on public room without talking to a specific person.

Another finding in this survey is to determine when the chatting turns to be cheating. The exact question is "When do you think chatting becomes cheating?". Results of this question is depicted in the following table."

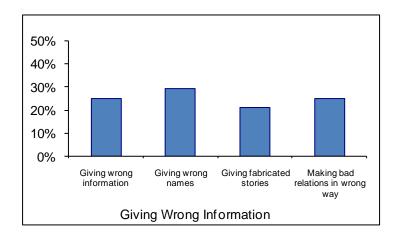


Figure 10: Percentage of people who consider chatting as cheating (Q50)

Chatting, cheating has a strong relation to what it may lead to. Many chatters think that chatting lead to sexual discussions, violent, and it promotes hate against others. The percentage of these as follows: 20% (Strongly agree), 17% agree, 24% sometimes, 34% disagree, and 23% disagree (Q47). As a result, most chatters do not provide any exact personal details. The percentage of people who follow this advice is 39%. However, there are 5% never give any person information. (Q51, 52).

The chatters were confident from themselves when the chatting is converted and mixed with cheating. They have recognized the following case that they consider chatting as cheatings. These cases are depicted in Figure 12.

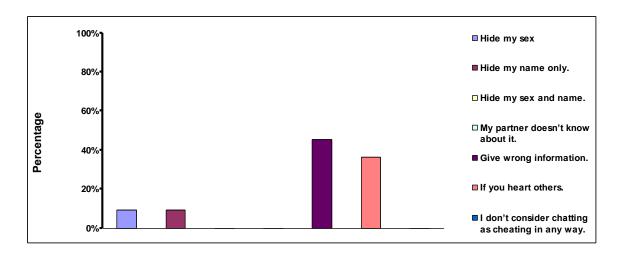


Figure 11: When chatting turns cheating (Q51+q52).

# 4. THE ROLE OF CHATTING ON SOCIAL CHANGES

Chatting has many disadvantages. These disadvantages are social, personal, and economic. On the social side, irresponsible people that the chatter deal with of the people. These irresponsible people provide false information and the personal that do chatting with them can determine the creditability of their statements. There are many observations that showed a lot of people deal with chatting unserious. This creates the creditability of chatters. In addition, the chat rooms might provide the chatters with false or fraud information or even some create undesirable habits to people. There are many cases where the chatting is used for steeling or damaging secret information. In social life, the chatting cases many of divorce cases or fraud. There are many married men and women who go to chat rooms regularly and engage in a variety of activities. Studies showed that the main reasons for seeking sexual thrills online is "lack of sex in the marriage, boredom, and a wish to recapture the excitement of the dating world. When online, they felt protected by the anonymity and the lack of real human contact." unlike the telephone and love letters, internet chat rooms are available all the day and night all over the year. It offers the users unlimited, consecutive hours of real-time contact where the process of revealing oneself is accelerated.

The study showed that there are 20% of male married people who do chatting established at least one relation with a woman through chatting and he hide his identity or provide her with false information. From the complementary of this sample, there is 65% of married men is willing to establish a relations outside his marriage. For married women, the percentage was almost zero, we have found that only 12% have established at least one relation with a man and hiding here identify. We found that from the remaining, there is 34% are willing to establish a relation with a man.

For single people, the study showed that 32% have already established at least one relation with a woman through cheating and from the remaining sample, there is 78% of single men have the desire to establish a relation with a woman through chatting with fraud. For women, the study showed that 15% have established at least one relation with

a man, and from the remaining percentage, there is, and that 23% of the surveyed women would like to establish a relation with a man even there is a cheating through chatting.

# 5. ANALYSIS, DISCUSSION AND WRAPPING ISSUES.

Chatters users have developed their own way of communicating between each others. They are called smileys or emoticons. Emoticons are symbols used to represent a wide variety of facial expressions to enhance the communication. There are many that are used universally among internet users and others that are made up to reflect a certain mood. They are usually easy to interpret. With the absence of facial interactions in on-line communication, many smiley symbols representing various emotions have been developed to help with understanding. For example, if someone types something just to be kidding, a smiley face :-) helps the reader know that the other person is not serious.

Chat users also developed their own informal rules of etiquette, including dialect, acronyms, and grammars. Here are some of them:

- Not to type in CAPS all the time. Using CAPS means you are yelling, even if you do not mean to yell.
- Using CAPS are hard to read
- Don't ask others about their age, sex, and location
- Don't ask for personal information
- Behave as you would be in real world
- If you've never visited the channel before and have no idea what to expect, just set back and watch for a while to get the feel of the flow of the channel

# 6. CONCLUSIONS

Currently, there are more than one million chatters at any time on the web any time any day. Chatting is taking many forms and it is moving toward the form of video conferencing since the technology gets more cheap and easier to get. This paper presented a case study based on a survey that investigates the relation between chatting and cheating. Survey results show that more than four in ten participant indicated that they give false information and act dishonestly while chatting. Survey results show that chatting has more negative effects than positive effects. Other interesting results are included in the paper.

The reason for participating in chatting varies between people. Among these reasons are: entertainment, killing the time or past time, making friends, inquiring welfare about relatives, gain knowledge and information, and many others. In addition, chatting has a lot of social changes upon people, and it is replacing as an alternative for other communications methods between people.

Although chatting has many advantages such as establishing friendship relations, locating new business opportunities, and improvement of the skills of language, but it sounds that it has many negative impacts. There is strong evidence that chatting is a reason for increasing divorce. In addition, there is strong evidence on the increase of surveillance

increase as a result of this, and more sexual abuse. The study recommends enforcing more control on chat rooms.

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