COMS 647 Communication Technology

Plan

Proposals
Review
Identity & Community
Preview



COMS 647 – Communication Technology Dr. David J. Gunkel Research Project Proposal

The research project proposal is a written document comprised of four parts. Each part should be addressed separately, and all responses should be as complete and descriptive as possible.

1) Thesis - Provide an explicit statement of what your project hopes to prove, demonstrate, or argue. This statement should be short (3-5 sentences) and concise. It should express a contended issue that requires subsequent argumentation or proof.

2) Method - Indicate what approach or approaches you will employ to research and prove your thesis. Obviously the method used should be appropriate to the issues and questions articulated in the thesis statement. In stating your method, please describe what you will do, where you will do it, and how this activity will provide data for resolving the thesis.

3) Plan - Describe how you will go about proving the thesis. Indicate the procedure that will be used to argue your position. Indicate how many parts the project will have, what each part will accomplish, and the relationship between these different parts. You may provide this information in either outline or narrative form.

4) Resources - List the various resources that you will employ to address your thesis. These may be books, journal articles, magazines, web sites, films, television programs, performances, songs, etc. Use the APA bibliographic form for presenting this information.

The proposal must be word processed, double spaced, and printed on white paper. On the average, a well-devised proposal will run about three pages. Because the proposal is a working document, it will not be assigned a grade. However, the effectiveness of the proposal will be assessed and evaluated by using the following five point scale:

► Thesis

- Declarative A concise statement of the objective/purpose of the research project.
- Argumentative Something that is contentious or debatable and not yet proven. Facts are not argumentative.
- Focused Narrowly construed and not too general or broad
- Provable Can be proven with currently available methods and resources by the project deadline.

Thesis - Focused

The Internet is not just a convenient means for communicating with each other. It will have a significant impact on our lives changing our

The Internet is not just a convenient means for communicating with each other. It will have a significant impact on our lives. This paper will concentrate on one aspect of this alteration, looking at the way the Internet qualitatively improves interpersonal communication between parents and their adult children.

Thesis - Provable

Despite recent advances, the digital divide is not only persistent but is getting worse. This paper will look at the limited access to and use

Despite recent advances, the digital divide is not only persistent but is getting worse. This paper will look at the limited access to and use of the Internet in three communities in the Northern Illinois area, demonstrating that the digital divide is very much a reality for the people who live in this region.

Thesis - Provable

Online users can be whoever and whatever they want. In Second Life, for instance, users can soloct their conder race and physical features, Online users can be whoever and whatever they want. hing In *Second Life*, for instance, users can select their nine gender, race, and physical features, creating a designer body that might be nothing like their real world self. I am going to examine the effect of this on race and race relations. In particular, I will argue that the ability to select one's race might lead to one race being privileged over all others and therefore instituting a form of prejudice and racial inequality.

Method

- Method is a description of the tools/materials you will use to prove what is stated in the thesis
- The method should be commensurate with the thesis; the tool should fit the specific task.



Thesis



Method

- Method is a description of the tools/materials you will use to prove what is stated in the thesis



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Method

Method

Thesis: This research project will demonstrate how the Internet's history has an effect on its current structure, operations, and user expectations.

Method: Library research. Look at historical documents about the design and expectations of the early Internet. Identify three or four distinguishing characteristics. And trace how these different characteristics come to be expressed in Internet guidebooks, technical publications, and popular media.

Thesis: The World Wide Web, which was invented by Tim Berners-Lee, provides readers and writers with an interactive, hypertextual environment that significantly transforms the way we create and access information.

Method: Library research. Look at theories of reading and writing in order to identify the assumed roles and function of the reader and writer. Correlate this information with technical explanations about the function and operation of hypertext, showing how hypertext undermines the basic assumptions we have about the traditional roles of reader and writer.

Thesis: The Internet is not just a convenient means for communicating with each other. It will have a significant impact on our lives. This paper will concentrate on one aspect of this alteration, looking at the way the Internet qualitatively improves interpersonal communication between parents and their adult children.

Method: <u>Focus Groups</u>. I will identify and meet with 10 pairs of parents and their adult children. I will ask them to reflect on the nature of their relationship and whether email and SMS has had any noticeable affect on their interpersonal relationship. The questions will be the same for all participants and responses will be recorded on audio tape for transcription and analysis.

Thesis: Despite recent advances, the digital divide is not only persistent but is getting worse. This paper will look at the limited access to and use of the Internet in three communities in the Northern Illinois area, demonstrating that the digital divide is very much a reality for the people who live in this region.

Method: <u>Survey Research</u>. I will survey residents of three rural communities in the Northern Illinois Region by making random phone calls. Participants will be asked to answer five questions concerning the current state of their Internet access and use. Information from the survey will be organized and statistically analyzed for common trends.

Thesis: Online users can be whoever and whatever they want. In *Second Life*, for instance, users can select their gender, race, and physical features, creating a designer body that might be nothing like their real world self. I am going to examine the effect of this on race and race relations. In particular, I will argue that the ability to select one's race might lead to one race being privilege over all others and therefore institute a form of prejudice and racial inequality.

Method: <u>Content Analysis</u>. I will visit three different islands in *Second Life*. Over a 4 hour period (7:00-11:00pm), I will keep track of who comes and goes on the island and note the avatar's race as evidenced by appearance and official description. Avatars will be categorized as white, hispanic, black, asian, or other. Once this data has been collected, I will submit the numbers to statistical analysis and see whether one race predominates. This information will be used to draw conclusions and project future opportunities for study.

Questions
Comments
Concerns

Review

 CMC & Internet Studies
 J.C.R. Licklider, The Computer as Communications Device
 James Carey, A Cultural Approach to

- Communication
- Sonia Livingston, Critical Debates in Internet Studies
- Susan Herring, Slouching Toward the Ordinary

Basic Communication Model



 SENDER has a thought
 SENDER ENCODES thought into a MESSAGE. 4. RECEIVER DECODES message 5. RECEIVER INTERNALIZES message

Review

The Computer as a Communication Device

In a few years, men will be able to communicate more effectively through a machine than face to face.

That is a rather startling thing to say, but it is our conclusion. As if in confirmation of it, we participated a few weeks ago in a technical meeting held through a computer. In two days, the group accomplished with the aid of a computer what normally might have taken a week. We shall talk more about the mechanics of the meeting later; it is sufficient to not

were all in the same room. But for all the ly across that room, we could have been thouommunicated just as effectively-as people-over

Computer as Communication Device

Influential paper written by J.C.R. Licklider and Robert W. Taylor and published in the journal International Science and Technology, April 1968

Institutes a paradigm shift in the understanding, employment, and investigation of the computer

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e an airline flight operations information ser-

recorder that answers seems more than a passive depository. It is an often-updated model of a changing situation-a synthesis of information collected, analyzed, evaluated, and assembled to represent a situation or process in an organized way

Still there is not much direct interaction with the airline information service; the tape recording is not changed by the customer's call. We want to emphasize something beyond its one-way transfer: the increasing significance of the jointly constructive, the mutually reinforcing aspect of communication-the part that transcends "now we both know a fact that only one of us knew before." When minds interact, new ideas emerge. We want to talk about the creative aspect of communication.

CMC & Internet Studies

- Thesis = CMC is "Normal Science"
 - ► What is normal science?
 - Brief History of the normalization of CMC
 - Normal assumptions of CMC and how they shape communication research

Normal Science

"In this essay, 'normal science' means research firmly based upon one or more past scientific achievements, achievements that some particular scientific community acknowledges for a time as supplying the foundation for its further practice."

Paradigm

Paradigms are "universally recognized scientific achievements that, <u>for a time</u>, provide model problems and solutions to a community of practitioners."

THE STRUCTURE SCIENTIFIC THIRD EDITION THOMAS S. KUHN

Paradigm Shift Scientific Revolution



Claudius Ptolemy - 120 AD

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This document invents the concept of CMC, even if the term does not appear in this particular form

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CMC = Shift in Paradigm

BLT

Computer = data processing or number crunching device



2nd Generation **Timeshared Mainframe**

The Computer as a Communication

Device In a few years, men will be able to communicate more effectively through In a fee year, one will be able to communicate some effectively through a studies time fine to be one. The second state of the second state state of a compare which second state state is seen as the second state state of the second state state state state is seen as the second state sta

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ecoders communicate is intre when they play to each other and record from each other? Not really-not in our sense. We believe that communicators have to do something nontrivial with the information they send and receive. And we believe that we are entering a technological age in which we will be able to interact with the richness of living information-not merely in the passive way that we have become accustomed to using books and libraries, but as rticipants in an ongoing process, bringing something to it throug action with it, and not simply receiving something from it by ou

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ALT

Computer = instrument of human communication



4th Generation PC / Computer Networks



The Invention of CMC

Licklider and Taylor did not specify any new technology. They did not introduce a new device or system

They simply changed the way we look at and understand existing technology. This was a conceptual innovation.

A communication system should make a positive contribution to the discovery and arousal of interests.

How is this a paradigm shift?

For whom is it a paradigm shift?

The Computer as a Communication Device

In a few years, men will be able to communicate more effectively through a machine than face to face.

Inat is a rather starting thing to say, but it is our conclusion. As it in confirmation of it, we participated a few weeks ago in a technical meeting held through a computer. In two days, the group accomplished with the aid of a computer what normally might have taken a week.

We shall talk more about the mechanics of the meeting later; it is sufficient to note here that we were all in the same room. But for all the communicating we did directly across that room, we could have been thousands of miles apart and communicated just as effectively-as people-over the distance.

Our emphasis on people is deliberate. A communications engineer thinks of communicating as transferring information from one point to another in codes and signals.

But to communicate is more than to send and to receive. Do two tape recorders communicate when they play to each other and record from each other? Not really-not in our sense. We believe that communicators have to do something nontrivial with the information they send and receive. And we believe that we are entering a technological age in which we will be able to interact with the richness of living information—not merely in the passive way that we have become accustomed to using books and libraries, but as active participants in an angoing process, bringing acmething to it through



1st Generation CMC

Punditry rides rampant, an optimistic celebration of the transformative potential of the internet... peppered with dystopian prognostications from the skeptics (Livingstone, p. 4)

Mark Dery – Flame Wars (1994)

"The upside of incorporeal interaction: a technologically enabled, postmulticultural vision of identity disengaged from gender, ethnicity, and other problematic constructions. Online users can float free of biological and sociocultural determinants"





2nd Generation CMC

A more serious engagement with evidence, seeking to *document* users and uses of the Internet (Livingstone, p. 4)



3rd Generation CMC

"Slouching towards the Ordinary" (Herring)

Current research studies the internet 'as it descends from the firmament and becomes embedded in everyday life.' (Livingstone, p. 4)

Susan Herring (2004)

"After barely more than 30 years of existence, CMC has become more of a practical necessity than an object of fascination and fetish"









The Handbook of Internet Studies Edited by Mia Consalvo and Charles Ess

new media & society



ISSN: 1461 - 4448 SAGE nms.sagepub.com

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Result

CMC = Normal Science; it is the operative paradigm for much of communications research at the turn of the century.

CMC is based on universally recognized achievements that (at least for now) provide a community of practitioners with model problems, recognizable methods for research, and a range of possible solutions.

Standard CMC Research



Research Opportunities

Thinking Inside the Box – Adhere to the CMC paradigm; operate within the established field of normal science

Thinking Outside the Box – Challenge the basic assumptions of CMC in order to develop new perspectives and research opportunities

Assumptions

Whether we think inside or outside the CMC box, we need to know the standard operating assumptions of CMC, either to adhere to them or intentionally challenge them.

Question: Given what you have read so far, what do you think are the standard operating assumptions of CMC?

Note: Assumptions are often not articulated explicitly but are typically operative behind the scenes and only visible by reading "between the lines" of a texts.

Mediated Interpersonal Communication



Edited by Elly A. Konijn Sonja Utz Martin Tanis Susan B. Barnes

1. Communication is a social good because it connects people together



1. Communication is a social good because it connects people together

2. Instrumental Theory of Technology

"The instrumentalist theory offers the most widely accepted view of technology. It is based on the common sense idea that technologies are 'tools' standing ready to serve the purposes of users. Technology is deemed 'neutral,' without valuative content of its own." - Feenberg 1991





"Eschewing simple determinisms then, internet studies should now critically develop both the softdeterminist claim that 'core economic, social, political, and cultural activities throughout the planet are being structured by and around the Internet' (Castells, 2002: 3), and the social shaping claim that 'people, institutions, companies, and society at large, transform technology, any technology, by appropriating it, by modifying it, by experimenting with it' (Castells, 2002: 4)."- Livingstone 2005

Theories of Technology and Society

1. Communication is a social good because it connects people together

2. Instrumental Theory of Technology

3. Technological Determinism vs. Social Shaping of Technology

4. Empiricism – Social scientific research methods and approaches



1. Communication is a social good because it connects people together

2. Instrumental Theory of Technology

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4. Empiricism – Social scientific research methods and approaches

Options

Accept and work within these assumptions; innovate within these constraints

Actively challenge these assumptions and work against or outside these constraints

What are the opportunities and challenges of pursuing these two options?

Today

Identity & Community

- *Gaming the System* Intro, ch. 2 & 3
- Dibbell A Rape in Cyberspace



Preview

Social Issues & Other Problems

- Epstein From Russia with Love
- Turkle Connected, but Alone? (video)
- Gaming the System ch. 4 & 5
- Exercise #2 Chatbot

