

HANDBOOK OF RESEARCH ON

COMPUTER MEDIATED COMMUNICATION



Sigrid Kelsey & Kirk St.Amant

Volume I

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Elahe Sohbat, Simon Fraser University, Canada

This chapter argues for programs that support academics to develop an understanding of the relationship between technology and pedagogy. To lay the groundwork for such an approach, the authors document how nine instructors at two universities integrated a computer conferencing tool into their course design and how their students reported actually using the tool. The data collected from this project was further considered from the perspective of Van Aalst's framework, which provides a way to examine online learning from a communal perspective, and the authors examine the implications this research has for online instruction.

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Deborah Vess, Georgia College & State University, USA

Michael Gass, Georgia College & State University, USA

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 Hsin-Liang Chen, University of Missouri at Columbia, USA

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 Stacey L. Connaughton, Rutgers University, USA
 Brent D. Ruben, Rutgers University, USA

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Shawn Apostel, Michigan Technological University, USA

Moe Folk, Michigan Technological University, USA

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Erin Bower, Sonoma State University, USA

Karen Brodsky, Sonoma State University, USA

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Kevin Eric DePew, Old Dominion University, USA

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 Joey F. George, Florida State University, USA

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Online reviews, evaluations of products and services written by consumers as opposed to professional writers, now appear not only in Web sites devoted to reviews, such as Epinions.com, but also in sites of

purchase, such as Amazon.com. This chapter examines consumers' possible motivations for devoting time and effort toward writing reviews. Prior research on print reviews suggests that reviewers tend to be positive in their evaluations. This chapter analyzed a sample of 640 online reviews to see whether a similar positive bias existed. In addition, this chapter examines a variety of editing strategies that online reviewers used to generate and sustain credibility. The chapter concludes with some ideas for gauging credibility in CMC genres like online reviews, such as analyzing the ways that consumers signal their expertise related to products and services.

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Karl-Heinz Renner, Otto-Friedrich University of Bamberg, Germany
Astrid Schütz, Chemnitz University of Technology, Germany

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Per F. V. Hasle, Aalborg University, Denmark
Anne-Kathrine Kjær Christensen, Aalborg University, Denmark

This chapter examines persuasive design, that is, computer mediated persuasive communication. The field is also often designated by the terms persuasive technology or captology. The basic concepts of the field are introduced, and its development since its inception in 1997/1998 is charted. The authors then strive to relate this field more systematically to communication science, and especially rhetoric. It is shown how a 'rhetorical turn' within persuasive design can place the field on a sound communication-theoretic footing.

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Deceptive Communication in E-Collaboration 297
Joey F. George, Florida State University, USA
Kent Marett, Washington State University, USA

Much research within the field of MIS has been devoted to the use of collaborative technology by decision makers and the impact computer-mediated communication (CMC) has on collaborative work. Yet, there may be some unintended consequences for users of CMC, if someone involved in the joint effort decides to take the opportunity to deceive the others involved. In this chapter, we posit that CMC offers would-be deceivers advantages that otherwise do not exist with more traditional, richer media, using past research and established theories to help explain why. We review some of the findings from our ongoing research effort in this area and explain how difficult it is for computer users to detect deception, when it occurs. Finally, we discuss how the art of deception in computer-mediated collaboration potentially can

affect both the current effort and future efforts of those involved, and we offer our thoughts on some of the factors CMC practitioners should consider when trying to combat computer mediated deception.

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<i>J. Patrick Biddix, Valdosta State University, USA</i>	

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<i>Anita Blanchard, University of North Carolina, USA</i>	

The objectives of this chapter are to define the concept of sense of virtual community (SOVC) that affects how individuals act and react within online groups. The chapter also examines what the potential antecedents and outcomes of SOVC are. To achieve these objectives, the author first examines how the SOVC construct has developed and our current knowledge of it. The author then discusses current issues and controversies surrounding SOVC and presents a program of research that could help researchers develop their understanding of SOVC.

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<i>Matthew S. Eastin, The University of Texas at Austin, USA</i>	
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<i>Vincent Cicchirillo, The Ohio State University, USA</i>	

Ramirez et al. explore the growing problem among adolescents in school of cyber-bullying. The chapter first documents the problem from a communication-based perspective, and offers a foundation for its study. The chapter discusses bullying in a traditional sense, and then contextualizes it within a computer mediated communication setting. The chapter also discusses existing research on cyber-bullies and victims of cyber-bullying.

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Joe E. Burns, Southeastern Louisiana University, USA

Dianna Laurent, Southeastern Louisiana University, USA

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Zeynep Cemalcilar, Koc University, Turkey

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Mikkel Godsk, University of Aarhus, Denmark

Anja Bechmann Petersen, University of Aarhus, Denmark

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Rosanna E. Guadagno, The University of Alabama, USA

Katrin Allmendinger, Fraunhofer Institute for Industrial Engineering, Germany

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Danny Hughes, Lancaster University, UK

James Walkerdine, Lancaster University, UK

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Joachim Kimmerle, University of Tuebingen, Germany

Ulrike Cress, Knowledge Media Research Center, Germany

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Patricia G. Lange, University of Southern California, USA

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Fay Sudweeks, Murdoch University, Australia

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tion of social network analysis as a method and visualization tool for the coded exchanges are explained and illustrated. Examples are provided from transcript data of moderated collaborative group discussions during virtual tutorials in a case study. With the integration of discourse and social network analytical methods, a richer interpretation is gained on the processes of articulation and negotiation of meaning during online learning conversations.

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Bradley M. Okdie, The University of Alabama, USA

Rosanna E Guadagno, The University of Alabama, USA

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Michaël Opgenhaffen, Lessius University College, Belgium

In this chapter, the author makes a strong plead for not studying the internet as one, homogeneous medium, but instead as a meta-medium that carries various divergent news media with specific formal and structural features. The author uses both results from a content analysis and theories of the black box of information-processing of online news to urge scholars to invest in studies towards the form and structure of online news media in order to better understand the total process of computer mediated news communication.

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Chapter XXXVII

Computer Mediated Collaboration 508

Barrie Jo Price, The University of Alabama, USA

Price puts forward that a confluence of societal change and new technologies changed the nature of the workplace. Examining how computer mediated communication has enabled people to overcome time and space barriers, she points out the difference between going to work and doing work. The chapter examines themes in the context of computer mediated communication, such as peer review, engaged learning, consensus building, and self-reflection. The chapter examines how these four areas, essential to workplace productivity, can effectively be brought about in a computer mediated forum.

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David Robins, Kent State University, USA

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Jamie S. Switzer, Colorado State University, USA

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Stephen Thorpe, Auckland University of Technology, New Zealand

Thorpe examines how group facilitators use story to build relationships among online group of people. The chapter discusses findings from a study investigating the use of story using a variety of computer mediated communication tools. The study included tools such as e-mail, audio, web conferencing, instant messaging, chat, blogging, and online surveys. Implications of online communication, such as disembodiment, unclear membership, and the level of tolerance for technical difficulties, are discusses, as well as interventions.

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Mirjam Weder, University of Basel, Switzerland

The communicative norms shared by online communities like newsgroups and mailing lists are examined in this chapter. The chapter investigates various roles that metacommunication plays in online communities, and how community building works in the virtual world. Metacommunication, as discussed in this chapter, is divided into instruction and evaluation. The chapter looks at community norms as expressed in messages in several mailing lists, as well as reactions to users to break the norms.

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Julie D. Woletz, Johann Wolfgang Goethe University, Germany

Woletz discusses digital story telling from both an anthropological and historical point of view. The chapter discusses media formats, technological artifacts used, presentational strategies, pragmatic factors, and communicative modes of digital storytelling. The chapter also discusses contacts of storytelling practices. The chapter traces the history of digital stroytelling from the 1970s to today's use of YouTube. Finally, Woletz describes two approaches to storytelling; top down, which emphasizes highly technical laboratories; and bottom up, which is derived from publishing stories using technology such as YouTube.

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CMC for the Enhancement of Psychotherapy 602

Markus Wolf, University Hospital Heidelberg, Germany

Stephanie Bauer, University Hospital Heidelberg, Germany

This chapter explores how psychotherapy and psychosocial interventions, which rely on verbal communication and language, can use computer mediated communication. The chapter discusses both advantages and limitations of using CMC in these fields. Several forms of CMC are discusses, including email, chat, and short message service (SMS). The chapter suggests three CMC approaches for relapse preventions following inpatient treatment, and concludes that evidence supporting technology-bases interventions in health care is growing and likely to become widespread.

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Mauri P. Collins, University of Nevada Las Vegas, USA

Zane L. Berge, University of Maryland, Baltimore County, USA

The chapter places electronic discussion group leadership and moderation, and discuss the distinctions among group administration, monitoring and reviewing. Just as the online discussion group is a voluntary, informal learning group in the historic tradition, so the monitor or reviewer of the online discussion group fulfills many of the roles, tasks, and responsibilities of an informal adult educator in their roles as discussion leaders and facilitators. This positions the moderators of online discussion groups within the realm of interest to adult education and educators. By examining such factors, this chapter will provide the foundations for understanding the complex, dynamic, and multitextural environment in which online discussion group moderators function.

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Boyd Davis, University of North Carolina-Charlotte, USA

Peyton Mason, Linguistics Insights, Inc., USA

This chapter identifies ten characteristics of online focus group text chat, including writing conventions. The chapter gives an overview of stance shift analysis, a type of quantitative content analysis, which is used to minimize investigator bias in investigating how people signal attitudes and opinions in online focus group interactions.

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<i>Rosalie J. Ocker, The Pennsylvania State University, USA</i>	

A series of experiments investigated creativity and quality of work-product solutions in virtual teams (Ocker, 2007, 2005; Ocker & Fjermestad, 1998; Ocker, Hiltz, & Johnson, 1998; Ocker, Hiltz, Turoff, & Fjermestad, 1996). Across experiments, small teams with about five graduate students interacted for approximately two weeks to determine the high-level requirements and design for a computerized post office (Goel, 1989; Olson, Olson, Storrosten, & Carter, 1993). The means of interaction was manipulated in these experiments such that teams interacted via one of the following treatments: (1) asynchronous computer mediated communication (CMC), (2) synchronous CMC, (3) asynchronous CMC interspersed with face-to-face (FtF) meetings, or (4) a series of traditional FtF meetings without any electronic communication.

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<i>Angélica Rísquez, University of Limerick, Ireland</i>	

This chapter integrates existing literature and developments on electronic mentoring to build a constructive view of this modality of mentoring as a qualitatively different concept from its traditional face-to-face version. The concept of e-mentoring is introduced by looking first into the evasive notion of mentoring. Next, some salient e-mentoring experiences are identified. The chapter goes on to note the differences between electronic and face-to-face mentoring, and how the relationship between mentor and mentee is modified by technology in unique and definitive ways. Readers are also presented with a collection of best practices on design, implementation, and evaluation of e-mentoring programs. Finally, some practice and research trends are proposed. In conclusion, the author draws an elemental distinction between both modalities of mentoring, which defines e-mentoring as more than the defective alternative to face-to-face contact.

Section IV

Tools and Technologies Related to CMC

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<i>Jonathan Cohn, UCLA, USA</i>	

Podcasts like many other new Internet genres, are thought to be listened to mainly by an affluent, geographically spread out audience who create podcast themselves. By looking at the various institutional and production issues, along with audiences of the podcast medium, this chapter will show how this genre works to create and sustain mass communities of “prosumers” and mobile audiences. Also, this chapter will historically contextualize the podcast by showing ways in which it is not simply a reiteration of earlier technologies, but also a distinct new medium with a unique, prosumer-friendly mode of transmission and reception.

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Mauri P. Collins, University of Nevada Las Vegas, USA

Zane L. Berge, University of Maryland, Baltimore County, USA

Online, email-based discussion groups are contemporary examples of an historical tradition of voluntary, informal, learning groups used by adults for topical discussion, fellowship, and learning. Because the discussion among group members takes the form of email exchanges, they are also been likened to historical correspondence networks. This chapter sets the historical context of the email-based discussion groups that preceded the extensive use of bulletin-board style discussion forums in contemporary learning management systems.

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Courtney D. Crummett, National Library of Medicine, National Institutes of Health, USA

Anna H. Perrault, South Florida University, Tampa, USA

This chapter highlights various ways that the academic library community is incorporating CMC technologies. This chapter focuses on instant messaging, blog, wiki, and podcast technologies. The authors provide current examples of academic libraries implementing these technologies. Advantages and disadvantages as well as barriers to implementation of these technologies are discussed. This chapter concludes with an exploration of future trends of CMC technologies used in academic libraries.

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Blogs - A Computer Mediated Communication Tool for Virtual Team Collaboration	720
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Ashok Darisipudi, Ball State University, USA

Sushil K. Sharma, Ball State University, USA

This chapter discusses how virtual teams can utilize blogs for their computer mediated communication tool to coordinate their work and effectively communicate. The chapter includes recommended practices for virtual teams to adopt, suggestions for communication techniques, and challenges this practice might create. The chapter gives examples of virtual teams, like political campaigns, already using blogs to communicate, and demonstrates how the “blogosphere” is a social network with individual blogs functioning as “nodes.” The chapter posits that blogs have a unique nature and characteristics, such as convenience, pervasiveness, and media richness, that can enhance virtual team collaboration.

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Uma Doraiswamy, Western Kentucky University, USA

This chapter will explain corporate blogs, its benefits and risks. It will explore with examples why blogs are important to organizations in terms of knowledge management, team management, marketing, collaboration and building customer relationship. Also it will give suggestions as to how information spe-

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Suely Fragoso, Unisinos, Brazil

This chapter proposes that search engines apply a verticalizing pressure on the WWW many-to-many information distribution model. In so doing, this pressure forces us to revert to a distributive model similar to that of the mass media. Within this paradigm, the confidence users place in the search engines and the ongoing acquisition of collaborative systems and smaller players by the large search engines contribute for the verticalizing pressure that the search engines apply to the WWW. In discussing these matters, the author also presents a brief history of search mechanisms for the Internet and discusses the increasing ties between the search engines and the advertising market.

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Turn Taking in E-Mail Discussions 755
Sandra Harrison, Coventry University, UK

This chapter investigates turn taking in naturally occurring email discussions. In email discussions, participants can self select to contribute at any time, turns cannot be interrupted, and adjacency cannot be guaranteed. However, participants engage in recognisable discussions and “speaker” change occurs. Patterns of turn taking can be observed, and there are many parallels with spoken conversation. Based on these observations, ‘rules’ for turn-taking in email discussions are devised.

Chapter LV

Innovation and Utility in the Optical Transport Network 773
Robert Karl Koslowsky, Independent Scholar, USA

This chapter addresses the introduction of a multiservice provisioning platform (MSPP) into the transmission segment of the communication network. MSPPs enabled the proliferation of computer mediated communication (CMC) through the synthesis of traditional voice and emerging Internet traffic. The bandwidth bottleneck created by voice-only-based equipment was broken by the MSPPs and positioned the Internet for carriage of even higher bandwidth video traffic.

Chapter LVI

Digital Photography 791
Eric T. Meyer, University of Oxford, UK

This chapter presents a typology for approaching the study of photography as a form of computer mediated communication, and then presents several examples illustrating the consequences digital photography has for amateurs and professionals. Examples include photojournalism, scientific photography, photography in the legal system, and personal photography. The chapter ends with a call for additional research into the social aspects of this ubiquitous form of computer mediated communication.

Chapter LVII

IM's Growth, Benefits, and Impact on Communication 804

Sara Rofofsky Marcus, Queens College GSLIS, USA

This chapter discusses synchronous, one-on-one, computer mediated communication and its implications on communication, especially for people with speaking or hearing difficulties. The chapter reviews the growth of this type of communication, beginning with TeleTypewriter/ Telecommunications Devices for the Deaf (TTY/TTD), and details how instant messenger communication has developed some of the same features as the TTY/TTD communication has used for years, such as shorthand to increase the speed. This aspect of the communication is then discussed in depth, including who uses it, advantages and disadvantages of it, and whether there will be an influx of the IM jargon into everyday language.

Chapter LVIII

Podcasting and Really Simple Syndication (RSS) 815

Anna C. McFadden, The University of Alabama, USA

The history and use of podcasting and really simple syndication (RSS) is covered in this article, including an in depth explanation of each technology and how they can be used together. The chapter details how podcasting can be a useful tool in educational and business settings, and provides a practical summary of the tools needed for implementing the technology. Both hardware and software are covered, as well as the applications for podcasting, and some issues and attitudes toward it. Broad implications are also discussed, such as how copyright relates to the technology, whether auditory instructional technology differs from in-class instruction, and how the use of podcasting transforms a social understanding of authority.

Chapter LIX

Computer Mediated Speech Technology - Perceptions of Synthetic Speech and Attitudes 831

John W. Mullennix, University of Pittsburgh at Johnstown, USA

Steven E. Stern, University of Pittsburgh at Johnstown, USA

This chapter examines a form of CMC called computer synthesized speech (CSS). In this chapter, the authors review the development of CSS technology and discuss the work on perception and comprehension of CSS. The authors then examine how CSS use influences interactions between people, in particular, disabled people. The chapter concludes by emphasizing that the development of CSS systems should take into account various social psychological factors rooted in prejudice and stigma of the disabled.

Chapter LX

Information Commons and Web 2.0 Technologies: Creating Rhetorical Situations and Enacting Habermasian Ideals in the Academic Library 845

Elisabeth Pankl, Kansas State University, USA

Jenna Ryan, Louisiana State University, USA

Pankl and Ryan discuss the effect that Web 2.0 technologies are having on academic libraries. The authors posit that Web 2.0 is bringing about significant pedagogical transformations in university curriculums by bringing a need into the curriculum for stronger information literacy instruction. The chapter discusses

the pedagogical practice on university campuses within the past thirty years toward a theory of social construction of knowledge, and go on to discuss the trend of Information Commons within academic libraries and how this fits in with the broader theme of this communicative learning. They conclude that the understanding of communication and pedagogy on college campuses has transformed and that the libraries offer the channels to best accommodate this transformation.

Chapter LXI

Human-Robot Interaction 855

Jutta Weber, Technical University Carolo-Wilhelmina of Brunswick, Germany

This chapter discusses epistemological, ontological and techno-material aspects of socio-emotional robots, particularly personal service robotics. The chapter focuses on social robots that interact physically, affectively and socially with humans, to support them in everyday life, play with or entertain them, and educate them. The aesthetics of social robots is discussed in terms of importance, explaining the differences between anthropomorphic robots, zoomorphic, and cartoon-like robots, and how the human reacts differently to the robot based on its looks. For example, users interacting with robots with humanoid features have a higher expectation of intelligence than from robots with animal like features. The chapter discusses the in broad terms the development of human robot interaction and summarizes several approaches to designing robot behavior to best communication with humans.

Chapter LXII

Instant Messaging as a Hypermedium in the Making 868

Kalev Leetaru, University of Illinois, USA

This chapter explores the recent rise of instant messaging systems as a centerpiece of online communication and the role this new medium will play in the communicative sphere. As the medium has evolved, it has grown to subsume many traditional communication technologies, merging their individual capabilities. A cross-section of popular and established technologies is examined and a strata of affordances introduced, describing the media's capacity for tasks enabled through their message transport. Through this framework the modern medium of Instant Messaging is compared against these other technologies in terms of the affordances offered by each and the argument presented that IM is evolving to subsume many of the traditional communicative mediums into a single communications hub, or hypermedium.

Section V

Cultural and Linguistic Issues in CMC

Chapter LXIII

CMC Research in Latin America and Spain - Meta-Analyses from an Emergent Field 883

Edgar Gomez Cruz, Universitat Oberta de Catalunya, Spain

This chapter examines the state of CMC research in both Latin America and Spain. This examination begins with a general introduction to the CMC studies that have been conducted in Latin America and Spain. The chapter then compares CMC studies in Latin America and Spain with the CMC research done in Western Europe and the United States. The chapter then concludes with an in-depth look at three

countries in which research into CMC appears to be the most developed or focused: Mexico, Argentina and Brazil.

Chapter LXIV

Global Culture and Computer Mediated Communication 901

Susan R. Fussell, Carnegie Mellon University, USA

Qiping Zhang, Long Island University, USA

Leslie D. Setlock, Carnegie Mellon University, USA

This chapter discusses how cultural differences influence computer mediated communication. The authors present a theoretical framework for understanding relationships between culture and computer mediated communication. They then use this framework to organize a detailed review of prior research on culture and computer-mediated communication. Throughout their review, the authors highlight the types of cultural differences that have been shown to make a difference and the aspects of computer-mediated communication they affect. The chapter concludes by suggesting some new avenues of exploration in the area of culture and computer-mediated communication.

Chapter LXV

Innovations and Motivations in Online Chat 917

Wengao Gong, National University of Singapore, Singapore

Vincent B. Y. Ooi, National University of Singapore, Singapore

This chapter examines the defining linguistic innovations in online chat and the social motivations behind them. In the chapter, the authors explore the uniqueness of online chat as a means of communication for (1) offering people opportunities to make new friends or acquaintances, (2) psychologically experimenting with different identities, and iii) exploring new relationships without the shyness that face-to-face interaction can bring. The authors also describe in detail some of the innovative linguistic features observable in this unique mode of communication and explain the social functions of these features. The chapter concludes with further trends concerning online chat as a means of communication and some recommendations for further research.

Chapter LXVI

Solidarity and Rapport in Social Interaction 934

Jung-ran Park, Drexel University, USA

This chapter presents a discourse analysis based on the linguistic politeness theoretical framework, applied to real time online chat. The chapter discusses differences between face to face communication and online chat, such as contextual cues, the effort and time required for keyboarding, and paralinguistic features of verbal communication. The chapter then presents online mechanisms by which users overcome the constraints of online chat. Park uses discourse analysis to analyze chat transcripts that took place in a mathematics group collaborating on a problem, and analyzes the way in which online language users enhance social interaction and group collaboration through this CMC channel, concluding that participants are able to employ a variety of tactics to signal non-verbal communication cues that normally take place in a face to face setting.

Chapter LXVII

Chat Rooms for Language Teaching and Learning	947
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Cheng-chao Su, National Taiwan College of Performing Arts, Taiwan

Karen Garcia, University of Massachusetts, USA

Focusing on synchronous computer mediated communication platforms, this chapter discusses a variety of chat platforms including instant messengers, web chat rooms, e-conferencing platforms, and other chat software. The chapter examines the impact that these technologies have on language teaching and learning, and addresses how the technology and diversity affect language teaching and learning processes, and make online activities motivating and authentic. Several pedagogical uses of synchronous computer mediated communication are presented, along with recommended guidelines for success. The chapter concludes that computer mediated communication technologies can bridge the gap between educators who are used to a print paradigm and students, who are often times digital natives.

Chapter LXVIII

Linguistic Forms and Function of SMS Text Messages in Nigeria	969
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Rotimi Taiwo, Obafermi Awolowo University, Nigeria

Taiwo examines linguistic forms and functions of text messages in Nigeria, examining how mobile phones have affected communication in Nigeria. The political and economic conditions in Nigeria are briefly described in the context of the availability of telecommunications. Sociolinguistics and languages in Nigeria are also discussed in the same context. The chapter examines various orthographic forms and linguistic devices common in text messaging, including contractions, initialisms, and acronyms, and examines how Nigerians employ them in English as well as how they relate to the indigenous languages of Nigeria.

Chapter LXIX

Linguistics of Computer Mediated Communication: Approaching the Metaphor	983
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Rosanna Tarsiero, Gionnethics, Italy

This chapter introduces the embodied metaphor as a means of studying the multifaceted relationship between computer mediated communication (CMC) and culture. It argues that the embodied metaphor offers a more reliable framework, as opposed to both deterministic and dispositional perspectives, in that it provides a way to understand, explain, and frame the user's adaptive response to CMC. Furthermore, it also argues that culture has the potential to shape interactions by influencing the way metaphors are enacted. The author hopes that the aforementioned approach will provide a new understanding of the interplay between CMC and culture, informing future study design and bridging the existing gap between qualitative and quantitative research through action science.