Curriculum Vita

Klaus Krippendorff, PhD, PhD,hc

Contacts

Office: Room 345D, The Annenberg School for Communication, University of Pennsylvania,
3620 Walnut Street, Philadelphia, PA 19104-6220; Tel.: 215+898-7051, Fax 215+898-2024

E-mail: klaus.krippendorff@asc.upenn.edu

Web: https://www.asc.upenn.edu/people/faculty/klaus-krippendorff-phd

Education

Ph.D. in Communications, University of Illinois, Urbana, 1967.

Dipl. Design, Ulm School of Design, Germany, 1961.

Ingenieur (grad.), State Engineering School Hanover, Germany, 1954.

Awards and Appointments

2017 Innovation Award for Methods from ICA's Mass communication Division

2016 Award "For his career achievements in CYBERNETICS APPLIED TO COMMUNICATION", from Business Systems Lab.

2016 Elected Fellow of the International Communicology Institute (ICI)

2016 Elected to the International Academy for Systems and Cybernetics Sciences (IASCYS)

2012 **Doctor of Philosophy *honoris causa*** from the Linnaeus University in Kalmar/Växjö, Sweden.

2012 "Article of the Year" award by the Communication Theory and Methodology division of AEJMC for http://repository.upenn.edu/asc_papers/278, in *Communication Methods & Measure 5*, 2: 1-20, 2011.

2012 Elected Fellow of the American Society for Cybernetics

2011 Member of Honorary Board of the World Complexity Science Academy

2011 Medal for contributions to understanding complex systems by the World Complexity Science Academy

2010-now **Emeritus Professor of Communication**. The Annenberg School for Communication, University of Pennsylvania

2001 Award of the Norbert Wiener Medal in Cybernetics in gold by the American Society for Cybernetics

2004 Award of the Norbert Wiener / Hermann Schmidt Prize by the German Society for Cybernetics, German Society for Pedagogy and Information, at the University of Vienna

2004 ICA Fellows Book Award for *Content Analysis; An Introduction to Its Methodology*

2001 Award of the Norbert Wiener Medal in Cybernetics in gold by the American Society for Cybernetics

2000-2003 **Gregory Bateson Professor for Cybernetics, Language, and Culture**, University of Pennsylvania

1998 Named by graduate students as the teacher of the best doctorial course taken at the University of Pennsylvania

1998 (Fall) Visiting Professor, Musachino Art University, Tokyo, Japan. http://www.ssdsj.net/eng/

1998 Elected International Fellow of the Society for Science of Design Studies, Japan.

1994 (Spring) Visiting Professor, University of New Hampshire, Durham NH.

1993-2002 Member of the Graduate Group in Conflict Analysis and Peace Science

1993-94 Special Professor, University of the Arts, Philadelphia PA.

1992 1st Annual Jay Doblin Award for the best article published in *Design Management Journal*

1989-98 Member: National Advisory Board, Institute of Communication Research, Urbana/Champaign, IL

1988 Gordon Research Conference on Cybernetics, January 18-22, Oxnard, CA.

1986-87 Distinguished Visiting Professor, Ohio State University, Columbus, OH.

1985 Elected Fellow of the International Communication Association (ICA).

1984 Gordon Research Conference on Cybernetics, August 27-31, New Hampton, NH.

1982 Elected Fellow of the American Association for the Advancement of Science (AAAS).

1980-2010 **Professor of Communication**, The Annenberg School for Communication, University of Pennsylvania.

1979-80 Fellow, Netherlands Institute for Advanced Study in the Humanities and Social Sciences, Wassenaar.

1973 (Spring) Guest Professor, Interuniversitair Instituut Bedrijfskunde, Delft, Erasmus University Rotterdam, The Netherlands

1971 Award for "On Generating Data in Communication Research" as the most outstanding contribution to *The Journal of Communication* in 1970. http://repository.upenn.edu/asc_papers/273

1971 **Master of Arts** *honoris causa* from the University of Pennsylvania, Philadelphia.

1970-80 **Associate Professor**, The Annenberg School of Communications, University of Pennsylvania.

1970 (Summer) Guest Professor, Institut für Publizistik, Free University Berlin, Germany.

1967-86 Member of the Graduate Group of Social Systems Science at the University of Pennsylvania.

1966-70 **Assistant Professor**, The Annenberg School of Communications, University of Pennsylvania.

1965-66 Associate, The Annenberg School for Communication, University of Pennsylvania.

1964-65 Pre-doctoral Research Fellow, The Annenberg School of Communications, University of Pennsylvania.

1963-64 Research Assistant at the Institute for Communications Research, University of Illinois, Urbana.

1961-63 Ford International Fellow.

1961 Fulbright travel grant.

1961 Design award (for diploma work) by the Bundesverband der Deutschen Industrie.

1960-61 Research Assistant at the Institute for Visual Perception, Ulm School of Design, Germany.

Professional Involvements

Memberships: American Association for the Advancement of Science (AAAS)
American Society for Cybernetics (ASC) (Fellow)
Deutsche Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPuK), (honorary)
International Communication Association (ICA) (Life Member)
International Society for Systems Science (ISSS)
Institut für Kybernetik Berlin e.V.

Offices: Member of the Board of the Business Systems Laboratory. 2012-now
Member of the advisory Board of the World Complexity Science Academy. 2011-now
Member of the International Board of Economics & Business Knowledge. 2010-now
Trustee, American Society for Cybernetics (ASC), 1999-2008
President and Founder of the International Federation of Communication Associations, 1991-2008.

President, International Communication Association (ICA), 1984-85.
Board Member and Ombudsman, American Society for Cybernetics (ASC), 1980-83, 1991-94.
ASC Delegate to AAAS's Section T, Information, Computing and Communication, 1998-2000.
ICA Delegate to AAAS's Section T, Information, Computing and Communication, 1978-81.
Member at Large of ICA's Board of Directors, 1977-80.
Chair, Information Systems Division, Member of the Board of ICA, 1970-76.

Member of the editorial boards of:

Arcos Design – a Brazilian online journal 2009-now
Artifact; Journal of Digital Design, 2003-now
Communication and Information Science, 1986-2001;
Communication Methods and Measures, 2006-now
Communication Monographs, 1985-1989;
Communication Research Reports 1985-2001;
Communication Research, 1974-1993;
Communication Studies, 2007-now
Communication Theory, 1988-2004;
Communication Yearbook, 1977-1980, 1984-1989;
Communication, 1974-79;
Communications, The European Journal of Communication Research, 1985-now;
Constructivist Foundations (an E-journal), 2004-now
Cybernetics & Human Knowing, 1991-now.
Electronic Journal of Communication, 2011-now
Human Communication Research, 1977-80, 1985-89, 1998-2004.
Informatologia, 1991-now;
Informatologia Yugoslavica, 1985-91;
International Journal of Cultural Studies, 1997-2008
International Journal of Markets and Business Systems, 2014-now
Journal of Communication, 1984-92; 2002-10
Kybernetes, 2016-now
Markets and Business Systems, 2915-now
Sprache und Form, 2015-now
The Radical Designist, 2016-now

Reviewer for: National Science Foundation (NSF)
Deutsche Forschungsgemeinschaft (DFG)
Entropy
Netherlands Institute for Advanced Studies (NIAS)
Israel Science Foundation
Swiss National Science Foundation (SNF)
Austrian Science Fund (FWF)
The American Scandinavian Foundation
Advances and Applications in Statistics
American Journal of Political Science
Behavioral Research Methods
Communication Methods and Measures
Communication Yearbook
Constructivist Foundations

Design Studies
Field Methods
International Journal of Communication
International Journal of Social Science Studies
Journal of the American Statistical Association
Journal for Peace Research
Journalism, Theory, Practice & Criticism
Management Communication Quarterly
Public Opinion Quarterly
Psychological Methods
Psychological Reports, Perceptual and Motor Skills
Sociological Methodology
The Information Society
The Sociological Quarterly
Quality and Quantity
Etc.

Activities: Gave three lectures in 2022 (Theories of Language Use; Cybernetics; and Content Analysis) and three workshops on Text Analysis on Zoom at Beijing Jiaotong University.

Organized the symposium "Discourses in Action" for the Scholars Program in Culture and Communication at Annenberg School for Communication, University of Pennsylvania, December 2, 2016.

Taught a two-day seminar on my *The Semantic Turn, a New Foundation for Design* at the University of Caldas, Manizales, Colombia. October 20-21, 2016.

Taught a two-day workshop on advanced content analysis for European scholars at the University of Palermo, Italy. August 29-30, 2016.

Presenter and organizer of a workshop on Human-Centered Design at the Universidad de Bogota Jorge Tadeo Lozano in Colombia, 2011-11-20

One of two scientific coordinators of the 1st International Conference on Qualitative Research Methods at the University of Enna "Kore" in Sicily, 2011.9.1-3

Organizer of two workshops on Computer Applications in Content Analysis at ICA conferences in Acapulco, Mexico, 2001, and Washington, DC, 2002.

Co-organizer of an international workshop on "Semantics in Design and the Linguistic Nature of Things," München, Germany, February 18-20, 1998

Co-organizer of an NSF-sponsored Workshop on Design in the Age of Information. "design@1006.information.edu" Raleigh, NC: North Carolina State University, February 29 – March 3, 1996. http://repository.upenn.edu/asc_papers/96

Co-organizer of the International Conference on "Cybernetics in the Art of Learning" for the American Society for Cybernetics, Philadelphia, November 1993.

Co-organizer of a Workshop and First European Symposium on Product Semantics, Helsinki, Finland, May 1989.

Co-organizer of a one-week workshop on Product Semantics at Corporate Design, Philips, Eindhoven. July 1985.

Co-organizer of a Workshop on Product Semantics for the Industrial Designers Society of America (IDSA) at the   Cranbrook Academy of Art, August 1984.

Organizer of the International Communication Association (ICA) Conference on "Communication in Transition," ICA Conference, San Francisco, May 1984.

Organizer of the National Conference on "Communication and Control Processes in Society," Philadelphia, October-November 1974.

Co-Organizer of the National Conference on "Content Analysis," Philadelphia, November 1967.

Participant, presenter of papers, or organizer of symposia at meetings of the

Aalto University, School of Arts and Design in Helsinki
Alta Conference (Utah)
American Association for the Advancement of Science (AAAS)
American Society for Cybernetics (ASC):
   http://www.youtube.com/watch?v=nK8O9ZxyIaE
Annenberg School for Communications, University of Southern California:
   http://www.youtube.com/watch?v=5CUs0NtFpIs
Association for Education in Journalism and Mass Communication (AEJMC)
Cooper-Hewitt, National Design Museum, a Smithonian Institution, New York
Conference on Writing across the Curriculum (WAC)
Congresso Brasileiro de Pesquisa & Desenvolimento em Design.
Design Management Institute
Deutsche Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPuK)
Deutsche Gesellschaft für Semiotics
East-West Center, Honolulu, Hawaii
European Communication Association (ECA)
Gordon Research Conference
Industrial Designer Society of America (IDSA)
Interaction Design Association (IxDA): http://vimeo.com/album/2488675/video/86240674
International Association for Dialogue Analysis
International Association for Mass Communication Research (IAMCR)
International Congress for Cybernetics and Systems Research
International Communication Association (ICA)
International Society for the Systems Sciences (ISSS)
Issues in Nursing Research Conference
Konstfack, University College of Arts, Crafts and Design, Stockholm, Sweden:
   http://vimeo.com/43316950
Linnaeus University, Kalmar, Sweden
Middle East Technical University in Ankara, Turkey
Netherlands Institute for Advanced Studies (NIAS)
Society for Science of Design Studies, Japan
Speech Communication Association/National Communication Association (NCA)
Temple Conference on Culture and Communication
Temple Conference on Discourse Analysis
Universidad de Bogota Jorge Tadeo Lozano
Universität der Künste, Berlin, Germany (UdK)
World Complexity Science Academy (WCSA):
   http://www.youtube.com/watch?v=EbqcYbjFK8U
Zentrum für Kunst und Medien, Karlsruhe

Scholarly Interests

- Critical cybernetics – An emancipatory discourse addessing epistemological pathologies in society.

- Qualitative methods and discursive constructions of reality – discourse and conversation analysis.

- Constructivist Epistemology and discursive (second-order) cybernetics.

- Critical analyses of scientific discourses

- Mathematical foundations of cybernetics, general systems, communication and information theories.

- Methodology of communication research; Analysis, critique and development of qualitative and quantitative techniques for empirical inquiry; Semantic analyses of ethnographic data.

- Content Analysis: Theory of content and practical content analyses; Critique of existing empirical techniques and development of new computational methods

- Disagreement and reliability analysis (various versions of Krippendorff's α).

- Critical Scholarship; Attempts to develop conceptions and methods of inquiry into social phenomena that reveal possibilities for change rather than describe what was; Liberating concepts, writing, and languaging especially in respect for Others.

- Design: Theory of product semantics; Human-centered and culture-sensitive design; Research for human-computer interface design: telephone, computer-supported cooperation and special applications; Design principles for the information age.

Graduate Courses:

Discursive Constructions of Realities (formally Language and Social Constructions of Realities). An inquiry into the principles and processes by which realities come to be socially constructed, linguistically institutionalized, and discursively maintained. This seminar serves as an introduction to qualitative inquiry into the emerging epistemology of communication. It provides students with dialogical and discursive tools to inquire into the histories and cultural differences of various social phenomena. It favors a reflexive/ethnographic approach that involves entering one's cognition into the sociology one comes to construct in the cause of observation and action. It explores the artifacts that discourses create, including scientific theories, models, and ideologies. In such explorations, students learn to boldly challenge all kinds of taken-for-granted realities, asking why some of them tend to hide their constructedness, and if experienced as burdensome or oppressive, probing into possibilities of liberation from them. The seminar is committed to critical scholarship and emancipatory pursuits, which are allied with feminist writing, cultural studies, and reflexive social inquiries.

Cybernetics, Systems and Media, earlier **Models of Communication..** An introduction to cybernetics and systems theory, whose concepts are fueling the present information-technological revolution. Students become acquainted with the formal building blocks for constructing models of communication and complex systems, whether these concern causal, cognitive, or social phenomena; with various theories of human interfaces with technology: cyborg, information, autopoietic, and coordination theories; and with second-order cybernetics, which offers a reflexive approach to understanding. The interdisciplinary scope of the course enables students to draw on knowledge from a diversity of empirical domains.

Cybernetics and Society. Models of communication and control are applied to various social phenomena and contrasted with other conceptual frameworks in the social sciences. Among the conceptions that are developed are those of information networks; recursions a system as contrasted with the exertion of influence; feedback (recursion and   teleology); autopoiesis, self-organization, self-

observing systems and other forms of recursive networks of interaction; natural, social, and artificial intelligence; different manifestations of natural selection/ultra-stability in perception, cognition, self-repair, and immune systems; chaos theory.

Information in Qualitative Data. The course develops multi-variate methods for exploring a variety of qualitative data and simultaneously broadens concepts of information and communication in a variety of social settings. While qualitative data are common in social research, their systematic analysis has been largely neglected. Recent developments have facilitated the use of qualitative data as a source of insights. The use of information theory as a vehicle for exploration is particularly appealing to communication researchers in search of new theoretical perspectives.

Semantics of Communication. Most social inquiries rely on linguistic data: written documents, letters, interview transcripts, field notes or published reports. The sole reason for their being is the meanings they have for particular readers. This course considers various theories of meanings, how texts are used, by whom, and in which institutional settings; and it explores the methods of analysis that these theories inform. It introduces several qualitative research traditions, presents case studies, and reviews the concepts, logic, and analytical models needed for independent qualitative research. The course is ethnographic in its approach to data collection (interviews, observational accounts, written matter); analytical in the way it probes its data (with models drawn largely from cultural anthropology); qualitative in the empirical methods it encourages (metaphor, conversation, and discourse analysis); dialogic in its respect for multiple voices (as opposed to the more familiar monologue); and critical or emancipatory in the consequences it aspires to.

Content Analysis. An introduction to the analysis of large bodies of textual matter: content analysis, also called message systems analysis, quantitative semantics, propaganda analysis, text analysis, or an approach to big communication data. The course inquires into the methods, empirical problems, and theories underlying these analytical efforts: sampling, text retrieval, coding, reliability, analytical constructs, computational techniques, and inferences. It demonstrates these with studies of mass media content, interview or panel data, and systematic efforts to provide legal evidence or draw valid inferences from personal documents or electronic exchanges. Students learn to design a content analysis and do the preliminary work on it. They may also perform a content analysis on already available data, develop a new analytical technique from available theories and test it, or they may explore relevant literature to solve a methodological problem in content analysis.

Seminar in Message Analysis. Advanced topics in the analysis of verbal and non-verbal message content will be considered and methodological or practical problems arising out of research projects will be solved in a seminar format. Among the topics that might be considered are: experiments with recording qualitative data, expansion of the system of agreement analysis, further formalization of data languages, attempts at validation, development of new analytical techniques and computer aided text analysis procedures, analytical use of available theories of cognition and symbolic behavior, exploration of systems that could integrate the results of different kinds of empirical research techniques with content analysis findings.

Undergraduate Courses:

Language in the Social Construction of Realities. Departing from traditional notions of language as a medium, this course sheds light on the discursive practices that constitute the realities we come to live in and observe. Readings and lectures develop the concepts needed to understand how realities are socially constructed or 'languaged' into being. Seminar-like discussions and individual students' contributions offer opportunities to critically examine a variety of constructions of reality from this perspective: facts, emotions, social problems, race, gender, hegemony, family, science, technology, and more. Students learn to appreciate how their own identity and   their own world is shaped by the language they use.

They take with them analytical skills and practical abilities to alter if not the way social reality is constructed so at least their own participation in it.

Social Cybernetics. Basic ideas about communication in society are explored from a cybernetic and systems theoretical perspective. The course acknowledges the traditional assumptions of linearity (communication as an intentional and one-way process) but builds on the recognition that most social processes are circular, emerging, self-sustaining, and controlling their own destiny. It starts with simple circularities, such as feedback, moves through the biological idea of autopoiesis (the ability of living systems to create and maintain their own boundary while organizing themselves within it) to self-organizing social systems. Principles of information generation, processing, storing, and communication are discussed. Evolutionary aspects of cultural artifacts, such as rituals, and of technological systems are explored. The lives of large communication networks are examined, and paradigms of self-observing systems are developed.

Human-centered Design. The word "design" derives from "de + signare," to "mark," "to make things into signs" or to make them meaningful to their users. Starting with the axiom that humans do not respond to the physics of things but to what they mean to them, the course explores how artifacts, especially language-like or intelligent ones, constitute themselves in various social practices and in their users' understanding. Key to this approach is the recognition that artifacts are understandable only through their interfaces and that human-centered design, as opposed to engineering or the design of functions has to address these.

- The course distinguishes four contexts in which artifacts must survive: use, language, ontogenesis, and the ecology of other artifacts.
- It develops a vocabulary, a language, to empirically study and describe a variety of meanings – a semantics – for each context in which artifacts must survive in interaction with different stakeholders, including among designers who too have a stake in the viability of their designs.
- It develops methods for designing artifacts that are culture-sensitive and respect what users or more generally stakeholders can make sense of and learn in their respective domains of experiences.
- And it develops empirical tests to validate the semantic claims that designers need to make to those who could bring their design to fruition.

From Conversation to Discourse, lecture at the Annenberg School for Communication and Journalism at the University of Southern California, October 10, 2011. https://www.asc.upenn.edu/news-events/annenberg-video/faculty-videos/klaus-krippendorff-lecture-annenberg-west

Discussion of key concepts in his *The Semantic Turn; A New Foundation for Design*, at the Konstfack in Stockholm, 2012. https://www.asc.upenn.edu/news-events/annenberg-video/faculty-videos/professor-klaus-krippendorff-discusses-key-concepts

Five interviews of Klaus Krippendorff at his home, conducted by Jeff Pooley as part of the oral history project of the Annenberg Library Archive, The Annenberg School of Communication, University of Pennsylvania.

1st on December 20th, 2016   https://vimeo.com/198725732

2nd on January 18th, 2017   https://vimeo.com/200237170

3rd on February 22nd, 2017   https://vimeo.com/205610302

4th on April 12th, 2017   https://vimeo.com/214223618

5th on May 17th, 2017   https://vimeo.com/218011456

Password: klaus

A Podcast

About the first chapter of my *Semantic Turn*, put together at the Ostbayerische Technische Hochschule, Regensburg, Germany in a seminar on Design Theory, Summer Semester 2019 taught by Prof. Dr. Rosan Chow, and visualized by 4th. semester students: Alicia Lindner, Andrea Florea, Bianca Spronraft, Gian van Rooyen & Patricia Lang.
https://vimp.oth-regensburg.de/video/The-Semantic-Turn-/53e78d919c5fd75bf94cae72c2bb2ead

Publications:

Books and Monographs

The Chinese translation of the 4th edition of *Content Analysis* in progress by Li Ming of the School of Journalism & Communication, Nanjing University for Tsinghua University Press in Beijing – in process.
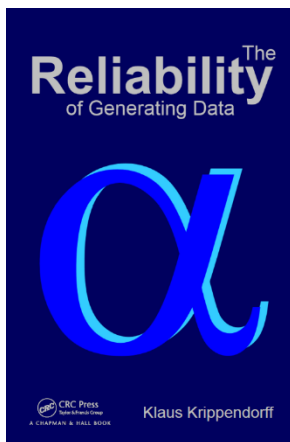
The Reliability of Generating Data.
Abingdon, UK: Chapman and Hall/CRC press, 2022 forthcoming.
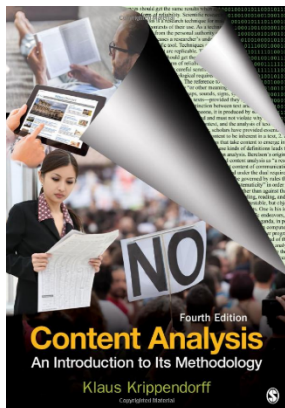
Content Analysis; An Introduction to Its Methodology, 4th Edition.
Thousand Oaks, CA: Sage, 2019.

Chinese translation by Prof. Dr. Fei Hu of
The Semantic Turn; A New Foundation for Design.
Beijing: China Architecture & Building Press, 2017.
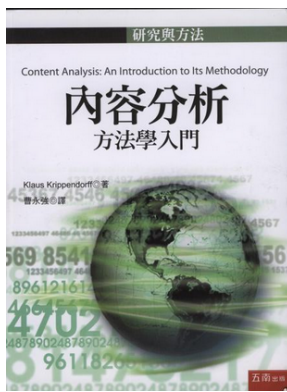
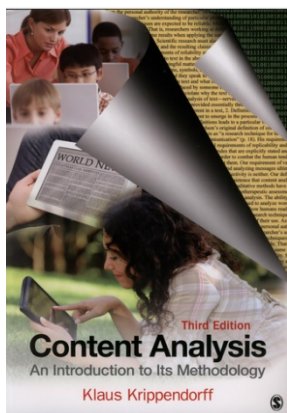Chinese translation by Tommy Cho, Ph.D.
Content Analysis; An Introduction to Its Methodology 3rd Edition; 488 pages.
Taipei, Taiwan: Wunan Publishing Co, 2014.

German translation of
The Semantic Turn; A New Foundation for Design:
Die semantische Wende. *Eine neue Grundlage für Design*.
Schriften zur Gestaltung / Züricher Hochschule der Künste. R. Michel (Ed.).
Basel: Birkhäuser Verlag/ De Gruyter, 2013.

Content Analysis; An Introduction to Its Methodology 3rd Edition; 441 pages.
Thousand Oaks, CA: Sage Publications, 2013.
Replacement of Section 12.4 to be introduced into its 4th edition.
http://www.asc.upenn.edu/usr/krippendorff/U-alpha.pdf
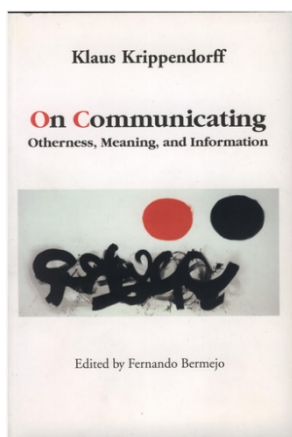

Japanese Translation of
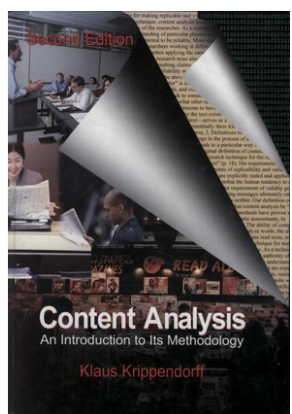*The Semantic Turn; A New Foundation for Design*
394 pages. Tokyo: SIBaccess Co. Ltd. 2009.

On Communicating; Otherness, Meaning, and Information.
Fernando Bermejo (Ed.). New York: Routledge, 2009.

The Semantic Turn; A New Foundation for Design.
Boca Raton, London, New York: Taylor & Francis CRC, 2006.

Content Analysis; An Introduction to Its Methodology, 2nd Edition.
413 pages. Thousand Oaks, CA: Sage publications, 2019.
https://www.academia.edu/36602778/Second_Edition_Content_Analysis?email_work_card=reading-history
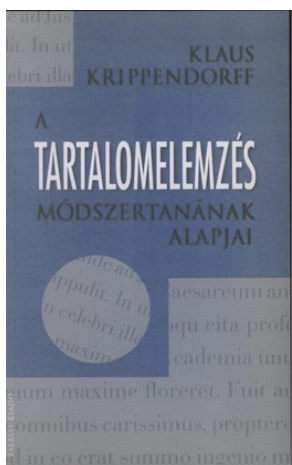
A Tartalomelemzés Módszertanának Alapjai. Budapest: Balassi Kiad, 1995.
Hungarian translation of *Content Analysis; An Introduction to its Methodology*.
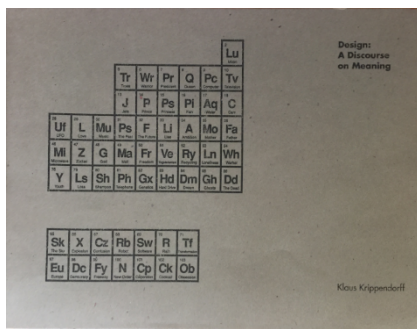
Design: A Discourse on Meaning; A Work Book.
Philadelphia, PA: University of the Arts, Summer 1994.

Analisis isi: Pengantar teori dan metodologi.
Terjemahan Farid Wajidi, (Tr.). Jakarta: Rajawali Press, 1991.
Indonesian translation of *Content Analysis; An Introduction to its Methodology*.
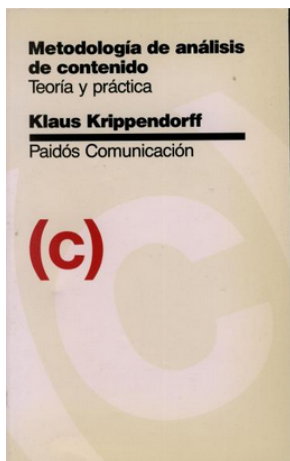

Metodologia de análisis de contenido: Teoria y practica.
Barcelona-Buenos Aires-Mexico: Ediciones Paidos, 1990.
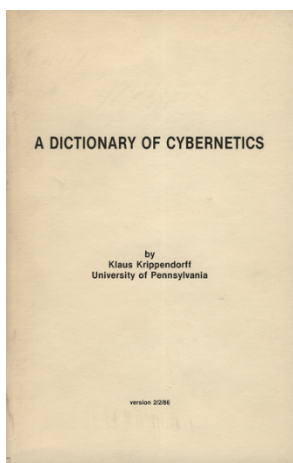Spanish translation of *Content Analysis; An Introduction to its Methodology*.

Japanese translation of a revised version of
Content Analysis; An Introduction to its Methodology.
Tokyo: Keiso Communication, 1990.
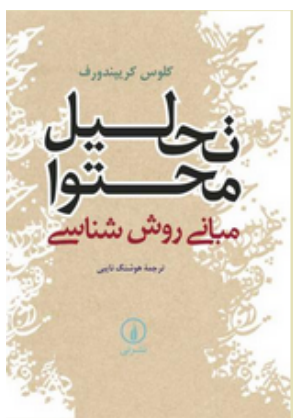
Farsi translation by Houshang Nayebi of
Content Analysis; An Introduction to its Methodology. Tehran:
NEY, 1988.
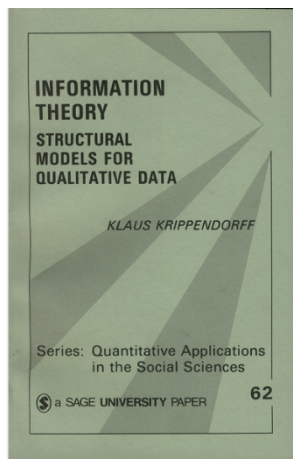
Information Theory: Structural Models for Qualitative Data;
96 pages. Beverly Hills, CA: Sage Publications, 1986.

A Dictionary of Cybernetics.
Norfolk, VA: The American Society for Cybernetics, 1986.
http://repository.upenn.edu/asc_papers/224
Entrees also available on: http://pespmc1.vub.ac.be/ASC/INDEXASC.html
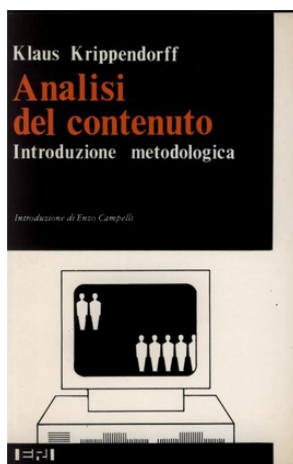
Analisi del Contenuto; Introduzione Methodologica.
Introduzione di Enzo Campelli. Torino: ERI, 1983.
Italian translation of *Content Analysis; An Introduction to its Methodology*.
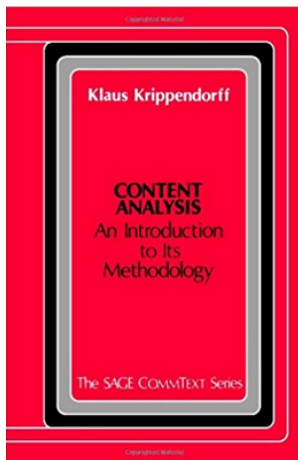
Content Analysis; An Introduction to its Methodology.
Beverly Hills, CA: Sage, 1980.

An Examination of Content Analysis: A Proposal for a Framework and an Information Calculus for Message Analytic Situations. 400 pages. Ph.D. Dissertation. Urbana: University of Illinois, 1967. http://repository.upenn.edu/asc_papers/250/

Über den Zeichen- und Symbolcharakter von Gegenständen: Versuch zu einer Zeichentheorie für die Programmierung von Produktformen in sozialen Kommunikationsstrukturen. 138 pages. Diploma Thesis. Hochschule für Gestaltung, Ulm, 1961. http://repository.upenn.edu/asc_papers/233

Edited and Coedited Volumes
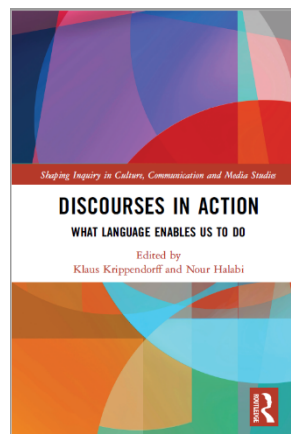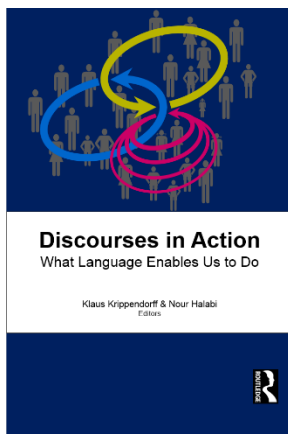
Discourses in Action; What Language Enables Us to Do.
Edited with Nour Halabi.
New York: Routledge/Taylor & Francis, 2020.
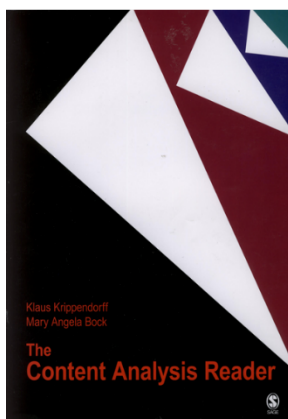
The Content Analysis Reader. Edited with Mary Angela Bock.
481 pages. Thousand Oaks, CA: Sage Publications, 2009.
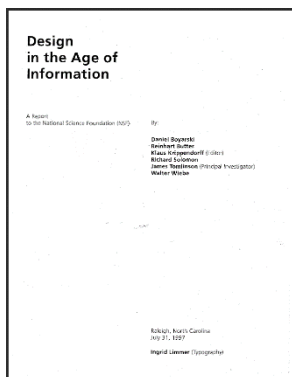
Design in the Age of Information;
A Report to the National Science Foundation (NSF). Edited. 184 pages.
Raleigh, NC: Design Research Laboratory, School of Design,
North Carolina State University, 1997. http://repository.upenn.edu/asc_papers/96

Special issue devoted to Product Semantics. Edited with Reinhart Butter.
140 pages. *Design Issues 5*, 2, 1989.

Special issue devoted to Product Semantics, Edited with Reinhart Butter.
36 pages. *Innovations 3*, 2, 1984.
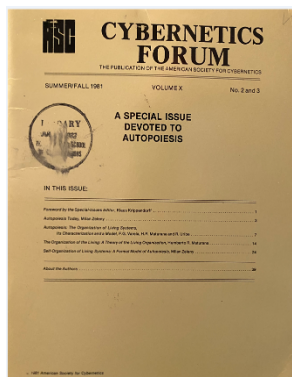
Special issue devoted to Autopoiesis. Co-edited with Milan
Zeleny. 39 pages. *Cybernetic Forum 10*, 2&3, 1981.
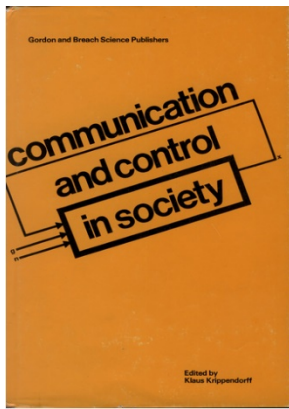
Communication and Control in Society. Edited.
597 pages. New York: Gordon and Breach, 1979.
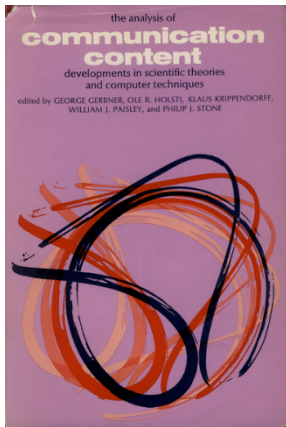
The Analysis of Communication Content; Developments in Scientific Theories and Computer Techniques. Edited with George Gerbner, Ole R. Holsti, William J. Paisley & Philip J. Stone.
529 pages. New York: John Wiley & Sons, 1969.

Book Chapters

Krippendorff's Alpha. Pp.767-772 in *The SAGE Encyclopedia of Research Design, 2ⁿᵈ Ed*. Bruce B. Frey (Ed.). Los Angeles, CA. …: SAGE reference. 2022.

Communication, Conversation, Discourse and Design. Pp.21-36 in *Matters of Communication*; Formen und Materialitäten gestalteter Kommunikation. Sabine Foraita, Bianca Herlo & Axel Vogelsang (Eds.) Deutsche Gesellschaft für Designtheorie und -forschung, Bielefeld, Germany: Transcript Verlag 2020. https://repository.upenn.edu/asc_papers/821

Design Discourse. Pp. 333-341 in Thilo Schwer & Kai Vöckler (Eds.). *Der Offenbacher Ansatz – Zur Theorie der Produktsprache*. Bielefeld, Germany: Transcript Verlag, 2020. https://repository.upenn.edu/asc_papers/820

Design Muss Sinn Machen (1986). Pp. 269-283 in Thilo Schwer & Kai Vöckler (Eds.). *Der Offenbacher Ansatz – Zur Theorie der Produktsprache*. Bielefeld, Germany: Transcript Verlag, 2020.

Why discourses in action? Chinese Translation by Hailong Tian of Klaus Krippendorff's Introduction to Krippendorff & Halabi (Eds.) (2020). *Discourses in Action*; *What Language Enables Us to Do. Contemporary Rhetoric 221*, 5: 46-55, 2020. https://repository.upenn.edu/asc_papers/827

Why discourses in action? An Introduction. Pp.1-13 in K. Krippendorff & N. Halabi (Eds.). *Discourses in Action*; *What Language Enables Us to Do.* New York: Routledge/Taylor & Francis, 2020.

"Relying on accountability to challenge authority, agency, and power" *and*
"Extending accountability to scholarly accounts of authority"
– Two contributions to Chapter 4, pp. 56-76 in N. Bencherki, F. Matte & F. Cooren (Eds.). *Authority and Power in Social Interaction: Methods and Analysis.* New York: Routledge/Taylor & Francis, 2020.

The Cybernetics of Design and the Design of Cybernetics. Pp. 119–136 in Thomas Fisher & Christiane M. Herr (Eds.). *Design Cybernetics – Navigating the New*. Berlin: Springer Verlag, 2019.

Discourses in the Design of Cultural Artifacts. Pp. 77 – 111 in M. Freise (Ed.). *Inspired by Bakhtin. Dialogical Methods in the Humanities*. Series on Studies in Comparative Literature and Intellectual History. G. Tihanov (Ed.). Brighton, MA: Academic Studies Press, 2018.

A Professor's Perspective on 50 Years. Pp. 178-179 in Anne Sceia Klein & Vilma Barr (Eds.). *On the Cusp; The Women of Penn '64.* Medford, NJ: Pine Road Press, 2018.

Reliability. Pp. 1591-1618 in Jörg Matthes (Ed.). *The International Encyclopedia of Communication Research Methods*. Hoboken, NJ: Wiley-Blackwell, 2017.

Intercoder Reliability Coefficients, Comparisons of. Pp. 724 – 729 in M. Allen (Ed.). The SAGE Encyclopedia of Communication Research Methods. Thousand Oaks, CA: Sage, 2018.

Intercoder Reliability Techniques: Krippendorff's Alpha. Pp. 743 – 750 in M. Allen (Ed.). The SAGE Encyclopedia of Communication Research Methods. Thousand Oaks, CA: Sage, 2017.

Design, an Undisciplinable Profession. Pp. 124, 197-206, in G. Joost, K. Bredies, M. Christensen, F. Conradi & A. Unteidig (Eds.). *Design as Research. Positions, Arguments, Perspectives.* Basel: Birkhäuser Verlag/De Gruyter (2016) https://repository.upenn.edu/asc_papers/628

Data. Pp. 484-489 in K. Brun-Jensen & R. T. Craig (Eds.). *International Encyclopedia of Communication Theory and Philosophy*. Hoboken, NJ: Wiley-Blackwell and ICA. 2016. (ISBN 9781118766804).

Design. Pp. 515-527 in K. Brun-Jensen, R. T. Craig (Eds.). *International Encyclopedia of Communication Theory and Philosophy*. Hoboken, NJ: Wiley-Blackwell and ICA. 2016. (ISBN 9781118766804) https://repository.upenn.edu/asc_papers/825

Social constructions of reality. Pp. 1874-1882 in K. Brun-Jensen & R. T. Craig (Eds.), *International Encyclopedia of Communication Theory and Philosophy*. Hoboken, NJ: Wiley-Blackwell and ICA. 2016. (ISBN 9781118766804).

~~Basic Concepts of Human-Centered Design, in Daniel J. Huppatz (Ed.) *Design: Critical and Primary Sources*. Bloomsbury Publishing plc. 2016 (ISBN: HB 9781472539366).~~

Cybernetics. Pp. 135–136, in W. Donsbach (Ed.). *The Concise Encyclopedia of Communication*. Blackwell Publishing Ltd. 2015.

Information. Pp. 254 – 255, in W. Donsbach (Ed.). *The Concise Encyclopedia of Communication*. Blackwell Publishing Ltd. 2015.

Reliability. Pp. 529–530, in W. Donsbach (Ed.). *The Concise Encyclopedia of Communication*. Blackwell Publishing Ltd. 2015.

Validity. Pp. 637–638, in W. Donsbach (Ed.). *The Concise Encyclopedia of Communication*. Blackwell Publishing Ltd. 2015.

Designing Design-forsch-ung: not Re-search. Pp. 106-117 in Daniel Klapsing, et al. (Eds.). *z.B.* Weimar: Verlag der BauhausUniversität Weimar, 2013.

Cybernetics as discourse. Pp. 434-451 in Věra Barandovská-Frank Ed.). Littera Scripta Manet, Serta in Honorem Helmar Frank. Paderborn/Prag: Academia Libroservo. 2013.

Representation, Re-presentation, Presentation, and Conversation. Pp. 143-159 in François Cooren & Alain Létourneau (Eds.). *(Re)presentations and Dialogue*. Amsterdam/Philadelphia: John Benjamins, 2012.

Conversation and its erosion into discourse and computation. Pp. 129-174 in Torkild Thellefsen, Brent Sørensen & Paul Cobley (Eds.). *From First to Third via Cybernetics*. Fredericksberg, Denmark: SL forlagene, 2011.   http://repository.upenn.edu/asc_papers/283.

Discourse and the Materiality of Its Artifacts. Chapter 2, pp. 23-46 in Timothy R. Kuhn (Ed.). *Matters of Communication: Political, Cultural, and Technological Challenges to Communication Theorizing.* New York: Hampton Press, 2011. http://repository.upenn.edu/asc_papers/259
Translated into French: Le discours et la matérialité de ses artefacts. Communication & Languages 2012 (173): 17-42.

Four (In)Determinabilities, Not One. Chapter 14, pp. 315-344 in Jose V. Ciprut (Ed.). *Indeterminacy: The Mapped, the Navigable, and the Uncharted.* Cambridge, MA: MIT Press, 2009. http://repository.upenn.edu/asc_papers/239

Mathematical Theory of Communication. Pp. 614-618 in S. W. Littlejohn & K. A. Foss (Eds). *Encyclopedia of Communication Theory*. Los Angeles, CA: Sage, 2009. http://repository.upenn.edu/asc_papers/169

Cybernetics. Pp. 285-290 in S. W. Littlejohn & K. A. Foss (Eds). *Encyclopedia of Communication Theory*. Los Angeles, CA: Sage, 2009.

Designing In Ulm and off Ulm. Pp. 55-72 in Karl-Achim Czember (Ed.). *HfG, Ulm; Die Abteilung Produktgestaltung; 39 Rückblicke*. Dortmund, Germany: Verlag Dorothea Rohn, 2008. http://repository.upenn.edu/asc_papers/138

Cybernetics. Pp. 1152-1159 in Wolfgang Donsbach (Ed.). *The International Encyclopedia of Communication*, *Vol. V.* Oxford, UK and Malden, MA: Wiley-Blackwell, 2008. http://gaiapc.ca/PJ/Cybernetics.pdf

Generalizability. Pp. 1951-1954 in Wolfgang Donsbach (Ed.). *The International Encyclopedia of Communication Vol. V.* Oxford, UK and Malden, MA: Wiley-Blackwell, 2008.

Information. Pp. 2213-2221 in Wolfgang Donsbach (Ed.). *The International Encyclopedia of Communication Vol. V.* Oxford, UK and Malden, MA: Wiley-Blackwell, 2008.

Reliability. Pp. 4174-4179 in Wolfgang Donsbach (Ed.). *The International Encyclopedia of Communication Vol. V.* Oxford, UK and Malden, MA: Wiley-Blackwell, 2008.

Systems Theory. Pp. 4941-4943 in Wolfgang Donsbach (Ed.). *The International Encyclopedia of Communication Vol. V.* Oxford, UK and Malden, MA: Wiley-Blackwell, 2008.

Validity. Pp. 5245-5251 in Wolfgang Donsbach (Ed.). *The International Encyclopedia of Communication Vol. V.* Oxford, UK and Malden, MA: Wiley-Blackwell, 2008.

Design Research; an Oxymoron? Pp. 67-80 in Ralf Michel (Ed.). *Design Research Now; Essays and Selected Projects.* Zürich: Birkhäuser Verlag, 2007. http://repository.upenn.edu/asc_papers/45

With Reinhart Butter, Semantics: Meanings and Contexts of Artifacts. Pp. 353-376 in H. N. J. Schifferstein & P. Hekkert (Eds.). *Product experience.* New York: Elsevier, 2008. http://repository.upenn.edu/asc_papers/91

The Social Construction of Public Opinion. Pp. 129-149 in Edith Wienand; Joachim Westerbarkey; and Armin Scholl (Eds.). *Kommunikation über Kommunikation. Theorie, Methoden und Praxis.* Festschrift für Klaus Merten. Wiesbaden, Germany: VS-Verlag, 2005. http://repository.upenn.edu/asc_papers/75/

Writing: Monologue, Dialogue, and Ecological Narrative. Pp. 119-159 in Michael B. Hinner (Ed.), *Introduction to Business Communication*. Freiberger Beiträge zur interkulturellen und Wirtschaftskommunikation, Band 1. Frankfurt: Peter Lang, 2005. http://repository.upenn.edu/asc_papers/93

Design Discourse: A Way to Redesign Design (Keynote Address to the Society for the Science of Design Studies, Japan, 2000), in English, pp. 01.5 – 01.11; in Japanese, pp. 01.12 -- 01.20; Special Issue: *Reconstruction of Meaning in Design and Next Dimensions of Design*, Japanese Society for the Science of Design, Tokyo, 2002. http://repository.upenn.edu/asc_papers/227

Foreword, Pp. xvii-xix in Herminia C. M. Alfonso, *Socially Shared Inquiry; A self-Reflexive Emancipatory Communication Approach to Social Re-search*. Sikatuna Village, Quezon City, Philippines: Great Books Trading. 2001.

Propositions of Human-centeredness: A Philosophy for Design. Pp. 55-63 in David Durling & Ken Friedman (Eds.), *Doctoral Education in Design: Foundations for the Future*. Staffordshire (UK): Staffordshire University Press, 2000. http://repository.upenn.edu/asc_papers/210 in https://www.academia.edu/11320895/Durling_and_Friedman._2000._La_Clusaz_Proceedings_Doctoral_Education_in_Design.

Ecological Narratives: Reclaiming the Voice of Theorized Others. Chapter 1, pp. 1-26, in Jose V. Ciprut (Ed.). *The Art of the Feud; Reconceptualizing International Relations*. Westport, CT: Praeger Publishers, 2000. http://repository.upenn.edu/asc_papers/97/

On the Otherness that Theory Creates. Chapter 1, pp. 1-13 in Jose V. Ciprut (Ed.). *Of Fears and Foes; Security and Insecurity in an Evolving Global Political Economy.* Westport, CT: Praeger Publishers, 2000. http://repository.upenn.edu/asc_papers/296

A Field for Growing Doctorates in Design? Pp. 207-224 in R. Buchanan, et al. (Eds.), *Doctoral Education in Design 1998; Proceedings of the Ohio State Conference.* Pittsburgh, PA: School of Design, Carnegie Mellon University, 1999. http://repository.upenn.edu/asc_papers/241

Principales metáforas de la comunicación y algunas reflexiones constructivistas acerca de su utilización. Chapter 4, pp. 107-146 in Marcelo Pakman (Ed.). *Construcciones de la Experiencia Humana II.* Barcelona, Spain: Gedisa editorial, 1997. http://repository.upenn.edu/asc_papers/333

A Trajectory of Artificiality and New Principles of Design for the Information Age. Pp. 91-95 in Klaus Krippendorff (Ed.), *Design in the Age of Information, A Report to the National Science Foundation (NSF)*. Raleigh, NC: Design Research Laboratory, School of Design, North Carolina State University, 1997. http://repository.upenn.edu/asc_papers/95

Seeing Oneself through Others' Eyes in Social Inquiry. Chapter 2, pp. 47-72 in Michael Huspeck & Gary P. Radford (Eds.). *Transgressing Discourses; Communication and the Voice of Other.* Albany, NY: SUNY Press, 1997.

On the Reliability of Unitizing Continuous Data. Chapter 2, pp. 47-76 in Peter V. Marsden (Ed.). *Sociological Methodology, 1995*, Vol. 25. Cambridge, MA: Blackwell, 1995. DOI:10.2307/271061

Redesigning Design; An Invitation to a Responsible Future. Pp. 138-162 in Päivi Tahkokallio & Susann Vihma (Eds.) *Design - Pleasure or Responsibility?* Helsinki: University of Art and Design, 1995. http://repository.upenn.edu/asc_papers/46

The Past of Communication's Hoped-For Future. Pp. 42-52 in Mark R. Levy & Michael Gurevich (Eds.). *Defining Media Studies; Reflections on the Future of the Field*. New York: Oxford University Press, 1994. https://repository.upenn.edu/asc_papers/532 (Originally *Journal of Communication* 43, 3: 34-44, 1993).

A Recursive Theory of Communication. Pp. 78-104 in David Crowley and David Mitchell (Eds.). *Communication Theory Today*. Cambridge, UK: Polity Press, 1994. http://repository.upenn.edu/asc_papers/209

Der Verschwundene Bote; Metaphern und Modelle der Kommunikation. Pp. 79-113 in Klaus Merten, Siegfried J. Schmidt & Siegfried Weischenberg (Eds.) *Die Wirklichkeit der Medien; Eine Einführung in die Kommunikationswissenschaft.* Opladen, Germany: Westdeutscher Verlag, 1994. http://repository.upenn.edu/asc_papers/258

Two Paths in Search of (the) Meaning (of Things). Pp. 113-142 in Michael Titzmann (Ed.). *Zeichen(theorie) in der Praxis*. Passau, Germany: Wissenschaftsverlag Rothe, 1993. http://repository.upenn.edu/asc_papers/256

Schritte zu einer konstruktivistischen Erkenntnistheorie der Massenkommunikation (G. Bentele & M. Rühl, transl.), pp. 19-51. Commentary by Klaus Merten, Horst Reimann, Lutz Erbring and Ulrich Saxer, pp. 52-73. In Günter Bentele and Manfred Rühl (Eds.). *Theorien Öffentlicher Kommunikation.* München, Germany: Ölschlaeger, 1993. http://repository.upenn.edu/asc_papers/293

Transcending Semiotics; Toward Understanding Design for Understanding. Pp. 24-47 in Susann Vihma (Ed.) *Objects and Images; Studies in Design and Advertising.* Helsinki: University of Industrial Arts, 1992. http://repository.upenn.edu/asc_papers/295

Reconstructing (some) Communication Research Methods. Chapter 7, pp. 115-142 in Frederic Steier (Ed.). *Research and Reflexivity*. London, England: Sage, 1991.

Product Semantics: A Triangulation and Four Design Theories. Pp. a3-a23 in Seppo Väkevä (Ed.). *Product Semantics '89.* Helsinki, Finland: University of Industrial Arts, 1990. http://repository.upenn.edu/asc_papers/254

Models and Metaphors of Communication. Manuscript for a textbook chapter and radio program for an educational series "Media and Communication, Construction of Realities" published, translated, and aired by Hessischer Rundfunk, Frankfurt, Germany, 1990. Published as: Der verschwundene Bote; Metaphern und Modelle der Kommunikation. Studienbrief 3: 11-50. *Medien und Kommunikation, Konstruktionen von Wirklichkeiten.* Weinheim & Basel: Beltz Verlag, 1990. http://repository.upenn.edu/asc_papers/276

Content Analysis. Pp. 403-407 in Erik Barnouw et al. (Ed.). *International Encyclopedia of Communication*, Vol. 1. New York: Oxford University Press, 1989. http://repository.upenn.edu/asc_papers/226

Cybernetics. Pp. 443-446 in Erik Barnouw et al. (Ed.). *International Encyclopedia of Communications*, Vol. 1. New York: Oxford University Press, 1989. http://repository.upenn.edu/asc_papers/211

Information Theory. Pp. 314-320 in Erik Barnouw et al. (Ed.). *International Encyclopedia of Communication*, Vol 2. New York: Oxford University Press, 1989. http://repository.upenn.edu/asc_papers/212

Shannon, Claude. Pp. 58-61 in Erik Barnouw et al. (Ed.). *International Encyclopedia of Communications*, Vol. 4. New York: Oxford University Press, 1989. http://repository.upenn.edu/asc_papers/213

On the Ethics of Constructing Communication. Presidential address delivered at the International Communication Association Conference on Paradigm Dialogues, Honolulu, Hawaii, May 26, 1985. Chapter 4, pp. 66-96 in Brenda Dervin, Larry Grossberg, Barbara J. O'Keefe and Ellen Wartella (Eds.). *Rethinking Communication: Paradigm Issues*, *Vol .I.* Newbury Park, CA: Sage, 1989. http://repository.upenn.edu/asc_papers/275

Zum Kontext des Artefakts. Pp. 256-279 in R. Komar & I. Antoni (Eds.). Gestaltung und Wirklichkeit. Stuttgart: Deutsche Verlagsanstalt, 1989.

A Heretic Communication about Communication about Communication about Reality. Keynote address presented at the 40th Anniversary of the Institute of Communication Research, University of Illinois, Urbana-Champaign, March 18-19, 1988. Chapter 10, pp. 257-276, in Miriam Campanella (Ed.). *Between Rationality and Cognition*. Turin and Geneva: Albert Meynier, 1988. http://repository.upenn.edu/asc_papers/235

Paradigms for Communication and Development with Emphasis on Autopoiesis. Chapter 14, pp. 189-208 in D. Lawrence Kincaid (Ed.). *Communication Theory: Eastern and Western Perspectives*. New York: Academic Press, 1987.

Produktsemantik. Pp. 58-69 in Martin Krampen & Horst Kächele (Eds.). *Umwelt, Gestaltung und Persönlichkeit; Reflexionen 30 Jahre nach der Gründung der Ulmer Hochschule für Gestaltung*. Hildesheim, Germany: Georg Olms, 1986. http://repository.upenn.edu/asc_papers/292

Paradox and Information. Chapter 2, in Brenda Dervin & Melvin J. Voigt (Eds.). *Progress in Communication Sciences, 5*: 45-71, 1984.

Q: An Interpretation of the Information Theoretical Q-measures. Pp. 63-67 in Robert Trapple, George Klir & Franz Pichler (Eds.). *Progress in Cybernetics and Systems Research Vol. VIII*. New York: Hemisphere, 1982. https://repository.upenn.edu/asc_papers/824

On the Identification of Latent Functions in Multi-Variate Data. Pp. 31-42 in Robert Trapple, George Klir & Franz Pichler (Eds.). *Progress in Cybernetics and Systems Research*, *Vol. VIII*. New York: Hemisphere, 1982.

Regression Analysis Using Information Theory. Pp. 1007-1012. 1982
https://repository.upenn.edu/asc_papers/817

A Proposal for an Algorithm for Generating Loopless or Recursive Models of Multi-variate Data. Pp. 299-304 in Len Troncale (Ed.). *A General Survey of Systems Methodology*. Louisville, KY: Society for General Systems Research, January 1982. http://repository.upenn.edu/asc_papers/208

An algorithm for identifying structural models of multivariate data. *International Journal of General Systems 7*: 63-79, 1981. ♀ ✓

Validity in Content Analysis. Chapter 3, pp. 69-112 in Ekkehard Mochmann (Ed.). *Computerstrategien für die Kommunikationsanalyse*. Frankfurt/New York: Campus, 1980.
http://repository.upenn.edu/asc_papers/291

Clustering. Chapter 9, pp. 259-308 in Peter R. Monge and Joseph N. Cappella (Eds.). *Multivariate Techniques in Communication Research*. New York: Academic Press, 1980.
http://repository.upenn.edu/asc_papers/311

With Frederick Steier. Cybernetic Properties of Helping; the Organizational Level. Pp. 89-94 in Richard F. Ericson (Ed.). *Improving the Human Condition: Quality and Stability in Social Systems*. Louisville, KY: Society for General Systems Research, August 1979. http://repository.upenn.edu/asc_papers/206.

On the Identification of Structures in Multi-variate Data by the Spectral Analysis of Relations. Pp. 82-91 in Brian R. Gaines (Ed.). *General Systems Research: A Science, A Methodology, A Technology*. Louisville, KY: Society for General Systems Research, August 1979.
http://repository.upenn.edu/asc_papers/207

Viestinta ja jarjestelmateoria. Chapter 1.2, pp. 43-71 in Elja Erholm and Leif Aberg, (Eds.). *Viestinnan Virtauksia* (The flow of Communication). Helsinki, Finland: Otava Oy, 1978.

Information Systems, Theory and Research: An Overview. Pp. 149-171 in Brent D. Ruben, (Ed.). *Communication Yearbook I*. New Brunswick, NJ: Transactions, 1977.

The Systems Approach to Communication. Chapter 10, pp. 138-163 in Brent D. Ruben & John Y. Kim (Eds.). *General Systems Theory and Human Communication*. Rochelle Park, NJ: Hayden Book Co., 1975.

Information Theory. Chapter 17, pp. 351-389 in Gerhard J. Hanneman & William J. McEvan (Eds.). *Communication and Behavior*. Reading, MA: Addison-Wesley, 1975.

An Algorithm for simplifying the Representation of Complex Systems. Pp. 1693-1702 in John Rose (Ed.). *Advances in Cybernetics and Systems*. New York: Gorden & Breach, 1974.

With Marten Brouwer, Cedric C. Clark, Michael F. Eleey, and George Gerbner. Tabulation of Findings, Analytical Procedures, and Sampling of Programs, Appendices A, B, and C to George Gerbner. Violence in Television Drama: Trends and Symbolic Functions. Pp. 66-187 in George E. Comstock & Eli A. Rubinstein (Eds.). *Television and Social Behavior*; Reports and Papers, Volume I: A Technical Report to the Surgeon General's Scientific Advisory Committee on Television and Social Behavior. Washington, DC: U.S. Department of Health, Education, and   Welfare Publication NSM 72-9057, 1972.

Bivariate Agreement Coefficients for Reliability of Data. Chapter 8, pp. 139-150 in Edgar R. Borgatta & George W. Bohrnstedt (Eds.). *Sociological Methodology 1970*, Vol. 2. San Francisco, CA: Jossey-Bass, Inc. 1970.

With Marten Brouwer, Cedric C. Clark, Michael F. Eleey, and George Gerbner. The Tele, pp. 311-339, and Content Analysis Procedures and Results. Pp. 519-591 in Robert K. Baker & Sandra J. Ball (Eds.). *Mass Media and Violence*, Vol. IX. A Report to the National Commission on the causes and prevention of violence. Washington, DC: U.S. Government Printing Office, November 1969.
http://repository.upenn.edu/asc_papers/214

Models of Messages: Three Prototypes. Chapter 4, pp. 69-106 in George Gerbner, Ole R. Holsti, Klaus Krippendorff, William Paisley, & Philip J. Stone (Eds.). *The Analysis of Communication Content; Developments in Scientific Theories and Computer Techniques*. New York: John Wiley & Sons, 1969.
http://repository.upenn.edu/asc_papers/282

Theories and Analytical Constructs (for Content Analysis), Introduction to Part 1. Pp. 3-16 in George Gerbner, Ole R. Holsti, Klaus Krippendorff, William Paisley, & Philip J. Stone (Eds.). *The Analysis of Communication Content: Developments in Scientific Theories and Computer Techniques*. New York: John Wiley & Sons, 1969.

Journal Articles

With Merzali Celikoglu, Ozge. Towards Ethnographies of Unimagined Possibilities: A New Paradigm for Human-centered Design Research. 2022 submitted.

A comment on "The Russia-Ukraine War and Its Systemic Solution". *Avances Sistémicos 5*, 3: 10-11, 2022.

A Quadrilogy for (Big) Data Reliabilities. *Communication Methods and Measures 15,* 3:165-189, 2021. DOI: 10.1080/19312458.2020.1861592.

https://doi.org/10.1080/19312458.2020.1861592
A software for binary data and explanations (2021) is accessible at: https://www.asc.upenn.edu/quadrilogy

Book review of K. Krippendorff & N. Halabi (Eds.) *Discourses in Actions*. By Liqing Zhang. Journal of Language and Politics issn 1569-2159 | e-issn 1569-9862, Published 16 March, 2021 online:
https://doi.org/10.1075/jlp.21013.zha

With Ozge Celikoglu Merzali, & Timur Ogut Sebnem. Inviting ethnographic conversations to inspire design: towards a design research method. *The Design Journal 23*, 1:133-152, 2019.
https://doi.org/10.1080/14606925.2019.1693209 .

Designkutatás: Oximoron? Hungarian translation of "Design Research; An Oxymoron?" by P. Wunderlich. *Disegno, Journal of Design Culture IV*, 01-02: 72-87. 2019.
https://doi.org/10.21096/disegno_2019_1-2kk

My scholarly life in cybernetics. *World Futures: The Journal of New Paradigm Research 75,* 1-2: 69-91, 2019, Jocelyn Chapman (Ed.). https://doi.org/10.1080/02604027.2019.1568803

Senior Communication Scholars' Advice to and Expectations of Young Researchers. A Dialogue, edited by Clement So. *Communication & Society 49*: 1-41, 2019. (In Chinese and English)

A discussion with Clement Y. K. So: The Changing Landscape of Content Analysis: Reflections on Social Construction of Reality and Beyond. *Communication & Society 47*: 1-27, 2019. (In Chinese and English).
https://repository.upenn.edu/asc_papers/604

Socio-technological consequences of design discourse. Projetando socialilidades o discurso do design e seus impactos. An interview by Pamilla Vilas Boas Costa Ribeiro. *iDeia Design Magazinebook, 2*: 64-71, 2018. (in Portuguese and English) https://repository.upenn.edu/asc_papers/603 http://ed2.revistaideia.com/project/magazine-book-volume-ii-2018/

Monologic versus Dialogic Distinctions of Selves. *Constructivist Foundations 13,* 1: 109-112, 2017.

Three Concepts to Retire. *Annals of the International Communication Association 41*, 1: 92-99, 2017. DOI: 10.1080/23808985.2017.1291281. https://repository.upenn.edu/asc_papers/629

Ozge Merzali Celikoglu; Sebnem Timur Ogut & Klaus Krippendorff. How do user stories inspire design? A study of cultural probes. *Design Issues 33*, 2: 84-98. 2017. https://repository.upenn.edu/asc_papers/511

Misunderstanding Reliability. *Methodology,* (*European Journal of Research Methods for the Behavioral and Social Sciences*) *12* (4): 139-144, 2016. DOI: 10.1027/1614-2241/a000119; https://repository.upenn.edu/asc_papers/537

Rediseñar el diseño una invitacióon a un futuro responsible. *Infolio 5*: 1-21, 1-05-2016. (ISSN 2255-4564) http://infolio.es/articulos/krippendorff/krippendorf05.htm, http://infolio.es/articulos/krippendorff/redesign.pdf https://repository.upenn.edu/asc_papers/529

With Mathet, Yann; Bouvry, Stéphane & Widlöcher, Antoine. On the Reliability of Unitizing Textual Continua: Further Developments. *Quality & Quantity 50*, 6: 2347-2364, 2016. Online since 2015.9.15 at https://link.springer.com/article/10.1007/s11135-015-0266-1 also at https://www.researchgate.net/publication/272581846_On_the_Reliability_of_Unitizing_Continuous_Data

With Craggs, Richard. The Reliability of Multi-Valued Coding of Data. *Communication Methods and Measures 10*, 4: 181-198, 2016. DOI: 10.1080/19312458.2016.1228863.

With Barry Clemson. A Merger of Two Strategic (Ir)reconcilables, 1962-1980. *Cybernetics and Human Knowing 23*, 1: 10-18, 2016. CHK 23(1).book (chkjournal.com)

Groll, Sandra (Ed.). Traces and Hopes of Design Research: An Interview with Gui Bonsiepe, Klaus Krippendorff, Siegfried Maser, and René Spitz. *Design Issues 31*, 1: 18-31, 2015. https://repository.upenn.edu/asc_papers/509

Design centrado no ser humano: uma Necessidade cultural, G. Meirelles & L. Niemeyer (Tr.) of "Human-centered design: a cultural necessity" Paper presented at the IV Congresso Brasileiro de Pesquisa e Desenvolvimeto em Design. Feevale Centro Universitário, Nova Hamburgo: *Estudos em Design–Rio de Janeiro 8*, 3: 87-98, 2000. https://repository.upenn.edu/asc_papers/822

Design Principles. *Digital Art Criticism No 4*: 88-94, 2014. (Chinese translation of Klaus Krippendorff's New Design Principles, Chapter 3 in his (Ed.), *Design in the Age of Information, A Report to the National Science Foundation (NSF)*. Raleigh, NC: Design Research Laboratory, School of Design, North Carolina State University, 1997).

Creating Identities. *Grid, 004*: 96-100, 2013. (Republication and translation into German of Section 4.4 of Klaus Krippendorff's (2006) *The Semantic Turn; A New foundation for Design*).

With Gabriela Trindade Perry (first author). On the reliability of identifying design moves in protocol analysis. *Design Studies 35*, 5: 612-635, 2013.

A dissenting view on so-called paradoxes of reliability coefficients. *Communication Yearbook 36*: Chapter 20, pp. 481-499 in C. T. Salmond, (Ed.). New York: Routledge, 2012. DOI: 10.1080/23808985.2013.11679143.

Le discours et la matérialité de ses artefacts. *Communication & Languages 173*: 17-42, 2012/3. https://www.cairn.info/revue-communication-et-langages1-2012-3-page-17.htm

Human-centered design; A cultural necessity. Edited reprint of "A Trajectory of Artificiality and New Principles of Design for the Information Age" 1997. *Collection 3*: 33-40. 2011. Paris, France: Ecole Parsons à Paris.

Investigación en diseño, ¿un oxymoron? Traducción con fines exclusivamente académicos por: Alfredo Gutiérrez Borrero. (14 de julio de 2011) https://utadeo.academia.edu/AlfredoGuti%C3%A9rrez

Agreement and Information in the Reliability of Coding. *Communication Measures and Methods 5*, 2: 93-112, 2011. http://repository.upenn.edu/asc_papers/278

Principles of design and a trajectory of artificiality. *Journal of Product Innovation Management 28*, 3: 411-418, 2011. https://onlinelibrary.wiley.com/doi/full/10.1111/j.1540-5885.2011.00814.x

Conversation: Possibilities of its Repair and Descent into Discourse and Computation. *Constructivist Foundations 4,* 3: 135-147, 2009. http://repository.upenn.edu/asc_papers/134

Information of interactions in complex systems. *International Journal of General Systems 38*, 6: 669-680, 2009. http://repository.upenn.edu/asc_papers/334

Social Organizations as Reconstitutable Networks of Conversation. *Cybernetics and Human Knowing 15*, 3-4: 149-161, 2008. http://repository.upenn.edu/asc_papers/135

Cybernetics's Reflexive Turns. *Cybernetics and Human Knowing 15*, 3-4: 173-184, 2008. http://repository.upenn.edu/asc_papers/136

Ross Ashby's Information Theory: A bit of History, Some Solutions to Problems, and What We Face Today. *International Journal of General Systems 38*, 2: 189-212, 2009. Correction of Figure 12, *International Journal of General Systems 38*, 6: 667-668, 2009. http://repository.upenn.edu/asc_papers/237

Systematic and Random Disagreement and the Reliability of Nominal Data. *Communication Methods and Measures 2*, 4: 323-338, 2008. http://repository.upenn.edu/asc_papers/205

Towards a Radically Social Constructivism. *Constructivist Foundation 3*, 2: 91-94, 2008. http://repository.upenn.edu/asc_papers/133

The Cybernetics of Design and the Design of Cybernetics. *Kybernetes 36*, 9-10: 1381-1392, 2007. http://repository.upenn.edu/asc_papers/48/

An Exploration of Artificiality. *Artifact 1*, 1: 17-22, 2007 (paper version). http://repository.upenn.edu/asc_papers/238

Andrew F. Hayes & Klaus Krippendorff: Answering the Call for a Standard Reliability Measure for Coding Data. *Communication Methods and Measures 1*, 1: 77-89, 2007. www.bwgriffin.com/gsu/courses/edur9131/content/coding_reliability_2007.pdf

The Dialogical Reality of Meaning; *The American Journal of Semiotics 19*, 1-4: 17-34, (actually 2006, nominally) 2003. http://repository.upenn.edu/asc_papers/51

Being Blind or Forgetting? Research After All is Re-search; *Aviso 40*: 8-9, 2005. http://repository.upenn.edu/asc_papers/38

Kommunikation als Überlebensfaktor in Unternehmen. Interview with Kerstin Richter in *Lernende Organisation 21*: 36-41, September/October 2004.

Die Folgen der Form von Kommunikationstheorien. Presentation at the Zentrum fur Medienkommunikation. Universitat Hamburg. *Aviso, 37*: 19, 2004.

Measuring the Reliability of Qualitative Text Analysis Data; *Quality and Quantity 38*: 787-800, 2004. http://repository.upenn.edu/asc_papers/42/

Reliability in Content Analysis: Some Common Misconceptions and Recommendations. *Human Communication Research 30*, 3: 411-433, 2004. http://repository.upenn.edu/asc_papers/242

Intrinsic Motivation and Human-centered Design; *Theoretical Issues in Ergonomics Science 5,* 1: 43-72, 2004. http://repository.upenn.edu/asc_papers/47

Recollections of Heinz von Foerster, a rhetorical genius. *Cybernetics & Human Knowing 10,* 3-4: 195-196, 2003. http://repository.upenn.edu/asc_papers/284

Rhetorische Geniestreiche. *Lernende Organisation, 11*, February: 59-60, 2003.

Afterword (to an issue devoted to the work of Francisco J. Varela). *Cybernetics & Human Knowing 9*, 2: 95-96, 2002. http://repository.upenn.edu/asc_papers/308

Design centrado no ser humano: uma necessidade cultural. *Revista Estudos em Design, Rio de Janeiro 8,* 3: 87-98, 2000. http://periodicos.anhembi.br/arquivos/Hemeroteca/Periodicos_MO/Estudos_em_Design/107170.pdf

De la construction des gens dans l'enquête sociale. *Reviue europédes sciences socials*, Tome XXXVII (114): 37-55, 1999. http://repository.upenn.edu/asc_papers/285

Beyond Coherence. *Management Communication Quarterly 13*, 1: 135-145, 1999. http://repository.upenn.edu/asc_papers/240

Wenn ich einen Stuhl sehe - sehe ich dann wirklich nur ein Zeichen? When I See a Chair - Must I See a Sign of It? *formdiskurs 5*, 2: 98-107, 1998. http://repository.upenn.edu/asc_papers/39

With Nelda Samarel and Jacqueline Fawcett: Women's perceptions of group support and adaptation to breast cancer. *Journal of Advanced Nursing 28*, 6: 1259-1268, 1998. http://repository.upenn.edu/asc_papers/309.

A Second-order Cybernetics of Otherness. *Systems Research 13*, 3: 311-328, 1996. http://repository.upenn.edu/asc_papers/80

Undoing Power. *Critical Studies in Mass Communication 12*, 2: 101-132, 1995. http://repository.upenn.edu/asc_papers/82

Major Metaphors of Communication and some Constructivist Reflections on their Use. *Cybernetics & Human Knowing 2*, 1: 3-25, 1993. http://repository.upenn.edu/asc_papers/84

The Past of Communication's Hoped-For Future. *Journal of Communication 43*, 3: 34-44, 1993. http://repository.upenn.edu/asc_papers/532

Where Meanings Escape Functions, with Reinhart Butter. *Design Management Journal 4*, 2: 30-37, 1993. http://repository.upenn.edu/asc_papers/332

Conversation or Intellectual Imperialism in Comparing Communication (Theories). *Communication Theory 3*, 3: 252-266, 1993. http://repository.upenn.edu/asc_papers/257

Information, Information Society, and Some Marxian Propositions. *Information and Behavior 5*: 487-521, 1992. http://repository.upenn.edu/asc_papers/216

The Power of Communication and the Communication of Power; Toward an Emancipatory Theory of Communication. *Communication 12*: 175-196, 1989 (published 1991).

Imaging, Computing and Designing Minds. *Design Management Journal 2*, 1: 29-36, 1991. http://repository.upenn.edu/asc_papers/234 .

Eine häretische Kommunikation über Kommunikation über Kommunikation über Realität. *Delfin 13,* 2: 52-67, January, 1990. http://repository.upenn.edu/asc_papers/235

The Language of Objects, with Seppo Väkevä. *Blueprint 52*, June 1989.
http://repository.upenn.edu/asc_papers/215

Design muss Sinn machen; zu einer neuen Design Theorie. Hochschule für Gestaltung Offenbach's *hfg-forum 14*: 24-30, November, 1989. http://repository.upenn.edu/asc_papers/252

"On the Essential Contexts of Artifacts" or on the Proposition that "Design is Making Sense (of Things)." *Design Issues 5*, 2: 9-39, 1989. http://www.jstor.org/pss/1511512

Association, Agreement, and Equity. *Quality and Quantity 21*: 109-123, 1987.

Japanese translation of Exploring the Symbolic Qualities of Form, with Reinhart Butter. *Industrial Design 139-140*: 10-13, 1987. http://repository.upenn.edu/asc_papers/40

With Michael Eleey, Monitoring a Group's Symbolic Environment. *Public Relations Review 12*, 1: 13-36, 1986.

Information, Information Society and Some Marxian Propositions (Shortened version of http://repository.upenn.edu/asc_papers/216). *Informatologia Yugoslavica 17*, 1-2: 7-38, 1985.

Comments on Richard Buchanan's "Declaration by Design." *Design Issues 2,* 2: 71-72, 1985.
http://repository.upenn.edu/asc_papers/217

Communication from a Cybernetic Perspective. *Informatologia Yugoslavica 16*, 1&2: 51-78, 1985.
http://repository.upenn.edu/asc_papers/218

Die Produkt-Semantik öffnet die Türen zu einem neuen Bewusstsein im Design. *Form 108-109*: 14-16, 1984-85. http://repository.upenn.edu/asc_papers/236

Fred Hermann: Experimente in Sachen Semantik. Form 108-109, 17-19, 1984-85.
http://repository.upenn.edu/asc_papers/41

Exploring the Symbolic Qualities of Form, with Reinhart Butter. *Innovations 3*, 2: 4-9, 1984.
http://repository.upenn.edu/asc_papers/40

An Epistemological Foundation for Communication. *Journal of Communication 34*, 3: 21-36, 1984.
https://repository.upenn.edu/asc_papers/538

An Algorithm for Identifying Structural Models of Multi-variate Data. *International Journal of Systems Science 7*: 63-79, 1981.

On the Cybernetics of Time, *Systemsletter 7*, 1: 1-2, 1978. http://repository.upenn.edu/asc_papers/228

Reliability of Binary Attribute Data. With comments by Joseph L Fleiss. *Biometrics 34*, 1: 142-144, 1978.
http://www.jstor.org/pss/2529602

Some Principles of Information Storage and Retrieval in Society. *General Systems 20*: 15-35, 1975.
http://repository.upenn.edu/asc_papers/229 Reprinted in *Communications 4*, 1: 5-34, & 4,2: 141-156, 1978.

Conclusions from the ASC Conference on Communication and Control in Social Processes, October 31-November 2, 1974 at the University of Pennsylvania. *Kybernetes 4*: 188-189, 1975; *Cybernetics Forum 7*, 1: 22-23, 1975. https://repository.upenn.edu/asc_papers/539

Adding Large Numbers by Computer. *Journal of Cybernetics 3*, 3: 13-14, 1973.

A Calculus for Disagreements: A Categorial Equivalence to Variance Analysis. *General Systems 16*: 222-235, 1971. http://repository.upenn.edu/asc_papers/219

Communication and the Genesis of Structure. *General Systems 16*: 171-185, 1971.
http://repository.upenn.edu/asc_papers/225

Reliability of Recording Instructions: Multivariate Agreement for Nominal Data. *Behavior Science 16*: 222-235, 1971.

The Expression of Values in Political Documents. *Journalism Quarterly 47*: 510-518, 1970.
https://repository.upenn.edu/asc_papers/530

On Generating Data in Communication Research. *Journal of Communication 20*: 241-269, 1970.
http://repository.upenn.edu/asc_papers/273

Estimating the Reliability, Systematic Error and Random Error of Interval Data. *Educational and Psychological Measurement 30*: 61-70, 1970.

Values, Modes and Domains of Inquiry into Communication. *Journal of Communication 19*: 105-133, 1969.

Produktgestalter Kontra Konstrukteur. *Output 5+6*: 18-21, 1961.
http://repository.upenn.edu/asc_papers/299

der komnunikative aspekt der produktgestaltung: gegenstände als zeichen und symbole. Presentation at the Hochschule für Gestaltung Ulm, January 2, 1961.
http://repository.upenn.edu/asc_papers/808

Publications in Informal Conference Proceedings

A Critical Cybernetics. Paper presented at the American Society for Cybernetics (ICA) track at the meeting of the International Society for the Systems Sciences (ISSS), July 7–13, 2021.
ASC Speaker Series #3 - Towards a Critical Cybernetics by Klaus Krippendorff - YouTube

Agency, algorithms, a new form of oppression and how cyberneticians might respond. Keynote to the American Society for Cybernetic (ASC) meeting in Montreal, Canada, 2019.06.22-27.

Social Implications of Three Models of Design. Keynote address to an international conference titled "Design for a Billion" hosted by the Indian Institute of Technology, Gandhinagar, November 7-9, 2014.

A Conversation with Ken Friedman on the Challenges that Digital Media Present to Design Discourse, Education, and Practice. On the occasion of the 20th anniversary celebration of the Media Lab at Aalto University in Helsinki, September 25, 2014.

A Future for Cybernetics. Keynote address to the 50th anniversary meeting of the American Society for Cybernetics at the George Washington University in Washington, DC, August 3-9, 2014.

Languaging Reality; Dialogue and Interaction. Keynote address to a conference on "*Language and Interaction*" February 6-8, 2014 in Amsterdam, organized by the international Interaction Design Conference (IxDA). http://vimeo.com/album/2488675/video/86240674

Designing Differences that Make a Difference. Keynote address to a conference titled; "*The Relationships between Design and Society*" held December 13, 2013 at the University of Art and Design, Offenbach/Main, Germany.

Krippendorff en la Tadeo [Españiol] (2011). Por: Alfredo Gutiérrez Borrero.
https://www.academia.edu/16989307/Krippendorff_en_la_Tadeo_Espa%C3%B1ol_2011_

Krippendorff's Alpha. Pp.669-673 in *The SAGE Encyclopedia of Research Design.* Neil Salkind (Ed.). Thousand Oaks, CA.: SAGE Publications. 2010.

Reconciling Radical Constructivism with Social Organizations as Networks of Conversations and Stakeholders. Prepared for presentation but not delivered at the 2008 Conference of the American Society of

Cybernetics, May 11-15, Urbana, IL. http://www.asc-cybernetics.org/2008/Krippendorff.htm ; https://repository.upenn.edu/asc_papers/528

The Diversity of Meanings of Cultural Artifacts and Human-Centered Design. Paper prepared for the DeSForM 2008 Conference, November 6-7, 2008, at the Hochschule für Gestaltung Offenbach, University of Frankfurt/Main.

Information and Cyberspace: Re-embodying Information Theory. Presentation on the occasion of receiving the Norbert Wiener/Hermann Schmidt Prize by the German Society for Cybernetics and the German Society for Pedagogy and Information, at the University of Vienna, 2004. http://www.gpi-online.de/upload/PDFs/EU-Media/_Krippendorf-ViennaInfCyberspace-EN.pdf

Product Semantics: A Brief Sketch. *4th Congresso Brasiliero de Pesquisa & Desenvolimento em Design.* Novo Hamburgo: Feevale Centro Universitário, October 29 - November 1, 2000.

Human-centered Design; A Cultural Imperative. *4th Congresso Brasiliero de Pesquisa & Desenvolimento em Design.* Novo Hamburgo: Feevale Centro Universitário, October 29 - November 1, 2000.

Design Discourse; A Way to Redesign Design. Keynote address to the Society for Science of Design Studies. Tokyo, Japan: December 6, 1998, in press. http://repository.upenn.edu/asc_papers/227

On Human-Centeredness in Design. Proceedings of the International workshop on Semantics in Design and the Linguistic Nature of Things, Munich, Germany, February 18-20, 1998. http://semantics-in-design.hfg-gmuend.de

Stakeholder Theory. Proceedings of the International workshop on Semantics in Design and the Linguistic Nature of Things, Munich, Germany, February 18-20, 1998. http://repository.upenn.edu/asc_papers/230

Human-Centeredness; A Paradigm Shift Invoked by the Emerging Cyberspaces. Keynote at a symposium on *Connected Intelligence; Human Beings in Information Systems* at the Zentrum für Kunst und Medientechnologie, Karlsruhe, Germany, October 27-28, 1997. http://repository.upenn.edu/asc_papers/85

On the Embodiment of Recursive Communication (Theory). Pp. 6-7 in Proceedings of the American Society for Cybernetics meeting on *Cybernetics and Circularity in Honor of Heinz von Foerster*, at the University of Illinois at in Chicago, May 16, 1995. https://repository.upenn.edu/asc_papers/826

Design muss Sinn machen; zu einer neuen Design Theorie. Paper presented at the International Forum für Gestaltung, Ulm, Germany, September 2-4, 1988. Proceedings published 1989. http://repository.upenn.edu/asc_papers/252

A Proposal for an Algorithm for Generating Loopless or Recursive Models of Multi-variate Data. Pp. 299-304 in Len Troncale (Ed.), in *A General Survey of Systems Methodology*. Louisville, KY: Society for General Systems Research, January 1982. http://repository.upenn.edu/asc_papers/208

Q: An Interpretation of the Information Theoretical Q-measures. Fifth European Meeting for Cybernetics and Systems Research, Vienna, April 1980. A software, written in Fortran, to compute the quantities developed here is available at http://www.leydesdorff.net/software/krippendorff/index.htm.

On Systems Thinking. Pp. 13-21 in Paul Broholm and Nic van Dijk (Eds.). *Systems Thinking and Social Science,* Proceedings of a Symposium held at the Inter-universitaire Interfaculteit Bedrijfskunde. Delft. The Netherlands, November 15, 1979. https://repository.upenn.edu/asc_papers/815

With Frederick Steier. Cybernetic Properties of Helping; the Organizational Level. Conference of the Society for General Systems Research: *Improving the Human Condition: Quality and Stability in Social Systems.* London, England, August 1979. http://repository.upenn.edu/asc_papers/206

Book Reviews

The Construction of Social Reality, by John R. Searle. New York: The Free Press, 1995. *Cybernetics & Human Knowing 3*, 4: 23-26, 1996. http://repository.upenn.edu/asc_papers/232 also published in *Communication Theory 7*, 1: 81-85, 1997.

Ecological Communication, by Niklas Luhmann. Chicago. IL: University of Chicago Press, 1989. *Journal of Communication 41,* 1: 136-140, 1991. https://repository.upenn.edu/asc_papers/527

Angels Fear: Toward an Epistemology of the Sacred, by Gregory Bateson and Mary Catherine Bateson. New York: MacMillan, 1987. *Journal of Communication 38*, 3: 167-171, 1988. https://repository.upenn.edu/asc_papers/536 Republished in *Continuing the Conversation 11*: 1-2, Winter 1987.

The Dream of Reality: Heinz von Foerster's Constructivism, by Lynn Segal. New York & London: Norton, 1986. *Journal of Communication 37*, 2: 155-158, 1987. https://repository.upenn.edu/asc_papers/534

Basic Content Analysis, by Robert P. Weber. Beverly Hills, CA: Sage Publications, 1985. *Journal of the American Statistical Association 82*: 354-355, 1987. https://repository.upenn.edu/asc_papers/540

Interact with complexity. Book review of *The Sciences and Praxis of Complexity*. New York: U.N. University, 1985. *Journal of Communication 36*, 3: 180-183, 1986.

Self-Organization and Management of Social Systems: Insights, Promises, Doubts and Questions, by H. Ulrich and G.J.B. Probst (Eds.). Berlin: Springer 1984. *European Journal of Operational Research 27*: 253-254, 1986. https://repository.upenn.edu/asc_papers/531

System and Structure: Essays in Communication and Exchange, by Anthony Wilden. London: Travistock Publications, 1972. *Contemporary Sociology 5*, 3: 291-292, 1976.

Gewalt im Fernsehen: Literaturbericht über Medienwirkungs-Forschung, by Helga Kellner and Imme Horn, Mainz, Germany: Universitäts-Druckerei, 1971. *Journal of Communication 24*, 1: 137, 1974. https://repository.upenn.edu/asc_papers/542

Content Analysis: A Technique for Systematic Inferences from Communications, by Thomas F. Carney. Winnipeg: University of Manitoba Press, 1972. *Public Opinion Quarterly 38*, 1: 155-157, Spring 1974. https://repository.upenn.edu/asc_papers/535

Crime and Information Theory, by M.A.P. Willmer. Edinburgh and Chicago: Edinburgh University Press and Aldine Publishing Company, 1970. *Journal of Communication 21*, 3: 280-294, 1971.

Cybernetic Principles of Learning and Educational Design, by Karl U. Smith and Margaret Foltz Smith, New York: Holt, Rinehart and Winston, Inc., 1966. *AV Communication Review 15*, 2: 216-218, 1967.

Wff'n Proof, The Game of Modern Logic, by Layman E. Allen. New Haven, Conn.: Box 71, 1962. *Equations, The Game of Creative Mathematics*, by Layman E. Allen. New Haven CT: Box 71, 1963. *AV Communication Review 14,* 1: 86-87, 1965.

Psychologie der Massenkommunikation: Theorie und Systematik, by Gerhard Maletzke. Hamburg: Hans Bredow Institut, 1963. *Journalism Quarterly 41*: 592-594, 1964.

Umfragen in der Massengesellschaft: Einführung in die Methoden der Demoskopie, by Elisabeth Noelle, Reinbeck bei Hamburg: Rowohlt, 1963. *AV Communication Review 12*, 4: 468-470, 1964.

On Film as Film. Film und Philosophie, Ein Essai, by Gilbert Cohen-Seat. Gütersloh, Germany: C. Bertelsmann Verlag, 1962. *Film und Verkündung, Probleme des religiösen Films*, by Gerd Albrecht. Gütersloh: C. Bertelsmann Verlag, 1962. *Die Deutsche Filmmusik von den Anfängen bis 1956*. by Hans Alex Thomas. Gütersloh: C. Bertelsmann Verlag, 1962. *AV Communication Review 11,* 6: 297-299, 1963.

Theorie der Massenmedien: Presse, Film, Rundfunk, by Erich Feldmann. München-Basel: Ernst Reinhardt Verlag 1962. *AV Communication Review 11*, 3: 64-65, 1963.

Research Reports and Proposals

Replacement of Section 12.4 in Klaus Krippendorff. Content Analysis; An Introduction to Its Methodology.3rd Edition. Thousand Oaks, CA: Sage Publications, 2013. To be introduced into its 2nd printing Originally posted 2014.4.12, revised 2015.9.23 http://web.asc.upenn.edu/usr/krippendorff/m-Replacement%20of%20section%2012.4%20on%20unitizing%20continua%20in%20CA,%203rd%20ed.pdf

Bootstrapping Distributions for Krippendorff's Alpha Substantially improved 2016 http://www.asc.upenn.edu/boot.c-Alpha

Algorithm for bootstrapping a distribution of $_c\alpha$, 2006 (mimeo) revised 2013 http://www.asc.upenn.edu/usr/krippendorff/m-BootstrappingRevised.pdf

Computing Krippendorff's Alpha-Reliability, 2007 (mimeo) revised 2011 http://repository.upenn.edu/asc_papers/43

Propositions of Human-centeredness; an Epistemology for Design. Paper prepared for a conference on a Ph.D. in Design

A Content Analysis of Bias in *Consumer Reports* on Automobiles. A Report of Research. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1982 (mimeo). http://repository.upenn.edu/asc_papers/220

Proof for and illustration of an algorithm that distinguishes structural models with loops from those without loops. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1981 (mimeo).

Development and Aid; A Study of Self-Organization in Bangladesh Villages. A Proposal for Research. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1978 (mimeo).

A Spectral Analysis of Relations. Philadelphia: The Annenberg School of Communication, University of Pennsylvania, 1976 (mimeo). http://repository.upenn.edu/asc_papers/223

A Method for the Strong Associative Clustering of 2^m Data. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1975 (mimeo). http://repository.upenn.edu/asc_papers/221

With Mike Eleey. A System for the Continual Monitoring of National Publicity for PBS Programming. Report of a Pilot Study. The Public Broadcasting Service, Washington DC, March 5, 1973.

Some Patterns in Violent Interaction on Television. A preliminary report, Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1969 (mimeo).

Computer Programs for Multivariate Classification in Content Analysis. A research Proposal submitted to the National Science Foundation. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1969 (mimeo).

Suggested Domain and Structure of a Ph.D. Program in Social Communication Science. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1965 (mimeo.). http://repository.upenn.edu/asc_papers/231

An Outline for BATIC: A Teaching Device for Demonstration of and Experimentation with Basic Automata Theory In Cybernetics and in Communications. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1964 (mimeo).

First Notes on Simulating Future-Directed Behavior of Very Large Social Systems on the Basis of the Message Content Circulating Within those Systems. Urbana, IL: Institute of Communications Research, University of Illinois, 1964 (mimeo).

Einfluß der Farbe auf die Erkennbarkeit und Auffälligkeit von Objekten. With Mervyn W. Perrine and Klaus Wegner. Ulm, Germany: Hochschule für Gestaltung, Research Center for Visual Perception, Technical Report 3, 1961. http://repository.upenn.edu/asc_papers/310

Computer Programs and Instructions

A Quadrilogy of Big Binary Data Reliabilities. Plus users' instructions and mathematical explanations 2021: https://www.asc.upenn.edu/quadrilogy

CONSTRUCT, a computer program for confirmatory analysis of structural models for qualitative data using information theory. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1988.

A Computer Program for Strong Associative Clustering of 2^m. Data. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1975 (mimeo).

A Computer Program for Agreement Analysis of Reliability Data (Version 4b), User's Manual. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, July 1973 (mimeo).

A Computer Program for Contingency Analysis, User's Manual. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1970 (mimeo).

A Computer Program for Analyzing Semantic Information Content of Symbols, User's Manual. Philadelphia: The Annenberg School of Communication, University of Pennsylvania, 1970 (mimeo).

A Computer Program for Analyzing Multivariate Agreements, User's Manual. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1968 (mimeo), Version 2 (1970), version 3 (1973).

A Computer Program for Assessing Agreements Among Many Judges When Data Are Nominal-Scale-Recorded. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1968.

Other Papers, Presentations, and Work in Progress

Four theories of using language. Online presentation to the Club of Remy. November 10, 2021. https://www.youtube.com/watch?v=jYnSbNobc3Y

From uncritical design to critical examinations of its systemic consequences. Keynote address to RSD10 conference in Delft, NL, on relating systems thinking to design, November 4, 2021. https://rsdsymposium.org/professor-dr-klaus-krippendorff/

A Critical Cybernetics. Keynote paper presented at the American Society for Cybernetics (ICA) track during the online meeting of the International Society for the Systems Sciences (ISSS), July 7–13, 2021.

Problems have no problem; Who does? Online presentation to the Club of Remy. May 5, 2021. https://www.youtube.com/watch?v=Y9BqQ1tIzSk

Seven complexities of social organizations. Online discussion at the Club of Remy. April 7, 2021. https://www.youtube.com/watch?v=AUrBH75gQSs

Conversations and their decay into other forms of communication. Online presentation to the Club of Remy. March 17, 2021. https://www.youtube.com/watch?v=c4pgxj8krTs

Towards a critical cybernetics. Online presentation to the Club of Remy. February 3, 2021. https://www.youtube.com/watch?v=VnF8_enkWKM

Escaping Entrapments in Uni-verses. Paper presented at a conference "What Is Universe", University of Oregon, Portland OR, April 21, 2018. An   Ecology of Artifacts in Language - YouTube

Agency and Discourse; Who is Talking and Acting – not What. Aubrey Fisher Memorial Lecture delivered at the Department of Communication, The University of Utah, Salt Lake City, October 19, 2017.

Three Models of Design – Notes for a keynote address delivered at a conference entitled: *Design for a Billion* at the Indian Institute of Technology, Gandhinagar, November 7-8, 2014.

Research vs. Design. Paper presentation at the BauhausUniversität Weimar, Germany, 2013.

From Conversation to Discourse. Presentation at USC's Annenberg School for Communicatio. Los Angeles, October 10, 2011.

Shifting Epistemology from Complexity to Reflexivity. Paper presented at the 2nd conference of the World Complexity Science Academy, Palermo, Italy, September 26-27, 2011.

Discourse and its Artifacts; Technology and Language Use. Presentation at the International Communication Association, Singapore, 2010.

The Diversity of Meanings of Everyday Artifacts and Human-Centered Design. Presented at the DeSForM Conference in Offenbach, November 6-7, 2008.

Language in the Constitution of Social Systems. Presentation at the International Society for the Systems Sciences (ISSS), Sonoma, 2006.

Recollections for the Gerbner-Memorial on 2006.4.8

Second-order Cybernetics, A Conversation that Reflects on Itself. Philadelphia: The Annenberg School for Communication, University of Pennsylvania, 2000.

Writing: Monologue, Dialogue, and Ecological Narrative. Paper presented to the conference of Writing Across the Curriculum (WAC). Ithaca, NY: Cornell University, June 3-6, 1999. For publication in Jonathan Monroe (Ed.), *Virtual Fields: Academic Discourse and Post-Disciplinary Cultures* (Publication project abandoned).

Doing Cybernetics. Presentation to a conference of the American Society for Cybernetics meeting on February 19, 1999 in Urbana-Champaign.

Design Discourse: A Medium for Redesigning Design. Presentation to the Society for the Science of Design Studies, 1998.12.6, Tokyo, Japan. Written 1999.6.1. http://ssdsj.net/eng/index.html

A Paradigm Shift Invoked by the Emerging Cyberspaces. Paper presented to a conference on "Connected Intelligence; Humans in Information Systems" at the Center for Art and Media, Karlsruhe, Germany, October 28-30, 1997. Also discussed at the conference on Design, Planning and Human Understanding of the American Society for Cybernetics, April 2-5, 1998, Santa Cruz, CA.

The Social Reality of Meaning. Paper presented at a workshop on *The Meaning of Things*, March 17, 1996, Cooper-Hewitt, National Design Museum, Smithonian Institution, New York.

Arguing in support of the proposition: *Resolved that "Knowledge about Communication Can Only Be Known By the Knower,"* made during the Information Systems Debate on 1996.5.24 at the ICA Conference in Chicago IL. http://repository.upenn.edu/asc_papers/286

The Semantic Turn; An Introduction to Product Semantics with Reference to Ulm. Principal paper presented to a conference convened for this purpose on December 3-4, 1994, at the Club off Ulm, Germany, Edited April 25, 1995.

The Principle of Reflexivity. Paper Presented at the ICA Conference in Washington DC, May 27-31, 1993.

Recent Developments in Reliability Analysis. Paper presented at the ICA Conference in Miami FL, May 21-25, 1992. http://repository.upenn.edu/asc_papers/44/

Disagreement and Reliability. Philadelphia: The Annenberg School for Communication, University of Pennsylvania, October 10, 1991 (mimeo).

Steppingstones Towards A Constructivist Epistemology for Mass Communication. Keynote address for a conference on Theories of Public Communication by the Deutsche Gesellschaft für Publizistik und Kommunikationswissenschaft, Bamberg, Germany, May 8-10, 1991. http://repository.upenn.edu/asc_papers/255

Information, In-formation and in Formation in Theory and Practice. Philadelphia: The Annenberg School for Communication, mimeo. Requested for publication, 1990.

On Reflexivity in Human Communication. Paper presented at the 10th Temple Conference on Discourse Analysis, March 16-18, 1989. Philadelphia: The Annenberg School for Communication, University of Pennsylvania, 1989 (mimeo). http://repository.upenn.edu/asc_papers/253

Receptions

"Das Schicksal (…) entscheidet sich in der Sprache" (The Fate (of…) is Decided in Language)" An extensive review of the German translation of *The Semantic Turn*, *a new Foundation for Design* (*Die semantische Wende, eine neue Grundlage für das Design*) in "*Sprache für die Form, 4,* 2014." http://www.designrhetorik.de/?page_id=4042.

Review of *Die semantische Wende* (German translation of *The Semantic Turn*, *a new Foundation for Design*) by Joachim Kobus http://www.designersbusiness.de/info/literatur/klaus-krippendorff. Blog: *Designers Business*. August 2013.

"Ästhetik und Semantik, Zwei Modelle." A comparison of Klaus Krippendorff's and Holger van den Bohm's theories of aesthetics and meaning by Felicidad Romero-Tejedor in: "*Offnungszeiten, Papiere zur Designwissenschaft 27*, 39-51, 2013. http://www.uni-kassel.de/upress/online/OpenAccess/1613-5881_002.OpenAccess.pdf .

Review of *The Semantic Turn; A New Foundation for Design* by Klaus Krippendorff. Reviewed by Pelle Ehn, *Artifact 1* (1): 59-63. http://apptrevete.com/enfasis/imagenes/krippendorf_resumenlibro.pdf

Review of *The Semantic Turn; A New Foundation for Design* by Klaus Krippendorff. Reviewed by Austin Henderson. *Interactions 13* (6): 56-59, 2006. http://dl.acm.org/citation.cfm?doid=1167948.1167988

Towards a Cybernetics of (Mass-Media) Institutions. Sari Thomas and Nancy Signorielli (Eds.). *Essays in Honor of George Gerbner*, proposed but not completed. http://repository.upenn.edu/asc_papers/251

On Poppings Agreement Indices. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1988 (mimeo).

On Constructing People in Social Inquiry. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1986 (mimeo).

Communication from a Cybernetic Perspective, East and West? Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1982 (mimeo).

Review of *Communication and Control in Society,* Klaus Krippendorff (Ed.) by Maria Novaskowska in the Polish Journal *Prakseologia,* May 1980.

The Model as a Communication Channel; A Quantitative Approach. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1978 (mimeo).

A Spectral Analysis of Relations, Further Developments. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1978 (mimeo). http://repository.upenn.edu/asc_papers/222

Reliability, The Case of Binary Attributes. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1978 (mimeo).

Validity in Content Analysis. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1977 (mimeo).

A Non-parametric Test of the Significance of Difference Between One and a Sample of Partitions of the Same Level. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1973 (mimeo).

The Recording Process. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1972 (mimeo).

What's Wrong with Content Analysis: A Methodological Critique. Paper presented to the Communication Theory and Methodology Division of the AEJ Annual Conference, Berkeley, CA, August 1969. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1969 (mimeo).

The Structure of an Algorithm for Identifying Values Expressed in Written Text. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1965 (mimeo).

Last revisions 2022.7.15