

Publications

Klaus Krippendorff

Books and Monographs

German Translation of *The Semantic Turn: Die semantische Wende*. In press at Birkhäuser Verlag, Basel, Switzerland.

Content Analysis, An Introduction to Its Methodology 3rd Edition; 441 pages. Thousand Oaks, CA: Sage Publications, 2012.

Japanese Translation of *The Semantic Turn*; 394 pages. Tokyo: SIBaccess Co. Ltd. 2009.

On Communicating; Otherness, Meaning, and Information. Fernando Bermejo (Ed.). 372 pages. New York: Routledge, 2009.

The Semantic Turn; A New Foundation for Design; 349 pages. 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, 2004.

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.

Metodologia de analisis 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.

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 Metodologica. Introduzione di Enzo Campelli. Torino: ERI, 1983. (Italian translation of *Content Analysis; An Introduction to its Methodology*).

Content Analysis; An Introduction to its Methodology. 188 pages. 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. Diplom Thesis. Hochschule für Gestaltung, Ulm, 1961. http://repository.upenn.edu/asc_papers/233

Edited and Coedited Volumes

The Content Analysis Reader. 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). 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, with Reinhart Butter. 140 pages. *Design Issues* 5,2, 1989.

Special issue devoted to Product Semantics, with Reinhart Butter. 32 pages. *Innovations* 3,2, 1984.

Special issue devoted to Autopoiesis with Milan Zeleny (Ed.). 39 pages. *Cybernetic Forum* 10, 2&3, 1981.

Communication and Control in Society. (Ed.). 597 pages. New York: Gordon and Breach, 1979.

The Analysis of Communication Content; Developments in Scientific Theories and Computer Techniques. With George Gerbner, Ole R. Holsti, William J. Paisley, Philip J. Stone. 529 pages. New York: John Wiley & Sons, 1969.

Book Chapters

Representation, Re-presentation, Presentation, and Conversation in press

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

Discourse and the Materiality of Its Artifacts. Chapter 2, pages 23-46 in *Matters of Communication: Political, Cultural, and Technological Challenges to Communication Theorizing*. Timothy R. Kuhn (Editor). New York: Hampton Press (2011). http://repository.upenn.edu/asc_papers/259

Four (In)Determinabilities, Not One. Chapter 14, pages 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

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

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

Designing In Ulm and off Ulm. Pages 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. Pages 1152-1159 in *The International Encyclopedia of Communication* (ed. W. Donsbach), Vol. V. Oxford UK and Malden, MA: Wiley-Blackwell, 2008.

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

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

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

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

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

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

With Reinhart Butter, Semantics: Meanings and Contexts of Artifacts. Pages 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. Pages 129-149 in Edith Wienand; Joachim Westerbarkey; and Armin Scholl (Eds.). *Kommunikation über Kommunikation. Theorie, Methoden und Praxis*.

- Festschrift für Klaus Merten. Wiesbaden: VS-Verlag, 2005. http://repository.upenn.edu/asc_papers/75/
- Writing: Monologue, Dialogue, and Ecological Narrative. Pages 119-159 in Michael B. Hinner (Ed.), *Introduction to Business Communication*. Freiburger 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, pages 01.5 – 01.11; in Japanese, pages 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, Pages 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. Pages 55-63 in David Durling and Ken Friedman (Eds.), *Doctoral Education in Design: Foundations for the Future*. Staffordshire (UK): Staffordshire University Press, 2000. http://repository.upenn.edu/asc_papers/210
- Ecological Narratives: Reclaiming the Voice of Theorized Others. Chapter 1 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, pages 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? Pages 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, pages 107-146 in Marcelo Pakman (Ed.). *Construcciones de la Experiencia Humana II*. Barcelona, Spain: Gedisa editorial, 1997.
- A Trajectory of Artificiality and New Principles of Design for the Information Age. Pages 91-95 in Klaus Krippendorff (Ed.). *Design in the Age of Information, A Report to the National Science Foundation (NSF)*. Design Research Laboratory, School of Design, North Carolina State University, Raleigh, NC, 1997. http://repository.upenn.edu/asc_papers/95
- Seeing Oneself through Others' Eyes in Social Inquiry. Chapter 2, pages 47-72 in Michael Huspeck and 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, pages 47-76 in Peter V. Marsden (Ed.). *Sociological Methodology, 1995*, Vol. 25. Cambridge MA: Blackwell, 1995.
- Redesigning Design; An Invitation to a Responsible Future. Pages 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. Pages 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. (Originally *JoC* 43,3: 34-44, 1993)
- A Recursive Theory of Communication. Pages 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. Pages 79-113 in Klaus Merten, Siegfried J. Schmidt & Siegfried Weischenberg (Eds.). *Die Wirklichkeit der Medien; Eine Einführung in die*

Kommunikationswissenschaft. Opladen: Westdeutscher Verlag, 1994.

http://repository.upenn.edu/asc_papers/258

Two Paths in Search of (the) Meaning (of Things). Pages 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.), pages 19-51. Commentary by Klaus Merten, Horst Reimann, Lutz Erbring and Ulrich Saxer, pages 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. Pages 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, pages 115-142 in Frederic Steier (Ed.). *Research and Reflexivity*. London, England: Sage, 1991.

Product Semantics: A Triangulation and Four Design Theories. Pages 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. Pages 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. Pages 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. Pages 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. Pages 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, pages 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 Publications, 1989. http://repository.upenn.edu/asc_papers/275

Zum Kontext des Artefakts. Pages 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, pages 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, pages 189-208 in D. Lawrence Kincaid (Ed.). *Communication Theory: Eastern and Western Perspectives*. New York: Academic Press, 1987.

Produktsemantik. Pages 58-69 in Martin Krampen and Horst Kächele (Eds.). *Umwelt, Gestaltung und Persönlichkeit; Reflexionen 30 Jahre nach der Gründung der Ulmer Hochschule für Gestaltung*.

- Hildesheim: Georg Olms, 1986. http://repository.upenn.edu/asc_papers/292
- Paradox and Information. Chapter 2, in Brenda Dervin and Melvin J. Voigt (Eds.). *Progress in Communication Sciences*, 5:45-71, 1984.
- Q: An Interpretation of the Information Theoretical Q-measures. Pages 63-67 in Robert Trappale, George Klir and Franz Pichler (Eds.). *Progress in Cybernetics and Systems Research* Vol. VIII. New York: Hemisphere, 1982.
- On the Identification of Latent Functions in Multi-Variate Data. Pages 31-42 in Robert Trappale, George Klir and Franz Pichler (Eds.). *Progress in Cybernetics and Systems Research*, Vol. VIII. New York: Hemisphere, 1982.
- Regression Analysis Using Information Theory. Pages 1007-1012 in Len Troncale (Ed.). *A General Survey of Systems Methodology*. Louisville KY: Society for General Systems Research, January, 1982.
- A Proposal for an Algorithm for Generating Loopless or Recursive Models of Multi-variate Data. Pages 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
- Validity in Content Analysis. Chapter 3, pages 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, pages 259-308 in Peter R. Monge and Joseph N. Cappella (Eds.). *Multivariate Techniques in Communication Research*. New York: Academic Press, 1980.
- With Frederick Steier. Cybernetic Properties of Helping; the Organizational Level. Pages 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. Pages 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 järjestelmäteoria. Chapter 1.2, pages 43-71 in Elja Erholm and Leif Aberg, (Eds.). *Viestinnan Virtausia* (The flow of Communication). Helsinki: Otava Oy, 1978.
- Information Systems, Theory and Research: An Overview. Pages 149-171 in Brent D. Ruben, (Ed.). *Communication Yearbook I*. New Brunswick NJ: Transactions, 1977.
- The Systems Approach to Communication. Chapter 10, pages 138-163 in Brent D. Ruben and John Y. Kim (Eds.). *General Systems Theory and Human Communication*. Rochelle Park NJ: Hayden Book Co., 1975.
- Information Theory. Chapter 17, pages 351-389 in Gerhard J. Hanneman and William J. McEvan (Eds.). *Communication and Behavior*. Reading MA: Addison-Wesley, 1975.
- An Algorithm for simplifying the Representation of Complex Systems. Pages 1693-1702 in John Rose (Ed.). *Advances in Cybernetics and Systems*. New York: Gordon & 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. Pages 66-187 in George E. Comstock and 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, pages 139-150 in Edgar R. Borgatta and 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 Television World of Violence, pages 311-339, and Content Analysis Procedures and Results. Pages 519-591 in Robert K. Baker

and 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, pages 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

Introduction to Theories and Analytical Constructs (for Content Analysis). Pages 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

A dissenting view on so-called paradoxes of reliability coefficients. *Communication Yearbook* 36, C. T. Salmond, (Ed.). New York: Routledge in press.

Human-centered design; A cultural necessity. (edited reprint of "A Trajectory of Artificiality and New Principles of Design for the Information Age" 2003). *Collection 3*. Paris, France: Ecole Parsons à Paris, 2011.

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.

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

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

With Andrew F. Hayes: Answering the Call for a Standard Reliability Measure for Coding Data. *Communication Methods and Measures* 1, 1: 77-89, 2007. <http://www.afhayes.com/public/cmm2007.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

An Exploration of Artificiality; *Artifact* 01: 9-13, 2006

- <http://www.informaworld.com/smpp/section~content=a779123985~fulltext=713240928~dontcount=true> .
- Being Blind or Forgetting? Research After All is Re-search; *Aviso* 40: 8-9, 2005.
http://repository.upenn.edu/asc_papers/38
- 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.
- Design centrado no ser humano: uma necessidade cultural. *Revista Estudos em Design, Rio de Janeiro* 8, 3: 87-98, 2000. http://periodicos.anhemi.br/arquivos/Hemeroteca/Periodicos_MO/Estudos_em_Design/107170.pdf
- De la construction des gens dans l'enquête sociale. *Reviue europédes sciences sociales*, 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.
- 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.
- Where Meanings Escape Functions, with Reinhart Butter. *Design Management Journal* 4, 2: 30-37, 1993.
- 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 the Symbolic Environment of Organizations. *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.

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. *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.

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

A Calculus for Disagreements: A Categorical 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.

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

Publications in Informal Conference Proceedings

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.

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

Human-centered Design; A Cultural Imperative. 4th Congresso Brasileiro de Pesquisa & Desenvolvimento 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 Medientechnology, Karlsruhe, Germany, October 27-28, 1997. http://repository.upenn.edu/asc_papers/85

On the Embodiment of Recursive Communication (Theory). Pages 6-7 in Proceedings of the American Society for Cybernetics meeting on *Cybernetics and Circularity* in Chicago, May 1995.

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

Regression Analysis Using Information Theory. Pages 1007-1012 in Len Troncale (Ed.). *A General Survey of Systems Methodology*. Louisville, KY: Society for General Systems Research, January, 1982.

A Proposal for an Algorithm for Generating Loopless or Recursive Models of Multi-variate Data. Pages 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

On the Identification of Latent Functions in Multi-Variate Data. Fifth European Meeting for Cybernetics and Systems Research, Vienna, April 1980

On Systems Thinking. Pages 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.

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

An Algorithm for simplifying the Representation of Complex Systems. Conference of the International Society of Cybernetics and Systems, Oxford, England, 1972. Published in 1974.

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: University of Chicago Press, 1989. *Journal of Communication* 41,1: 136-140, 1991.
- 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. 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.
- Basic Content Analysis*, by Robert P. Weber. Beverly Hills CA: Sage Publications, 1985. *Journal of the American Statistical Association* 82: 354-355, 1987.
- 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.
- System and Structure: Essays in Communication and Exchange*, by Anthony Wilden. London: Tavistock 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.
- 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.
- 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, CT: 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.
- Film und Philosophie, Ein Essai*, by Gilbert Cohen-Seat. Gütersloh: C. Bertelsmann Verlag, 1962. *Film und Verkündigung, 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

- Algorithm for bootstrapping a distribution of α , 2010 (mimeo) <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 Eeley. 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: Hochschule für Gestaltung, Research Center for Visual Perception, Technical Report 3, 1961.

Computer Programs and Instructions

- 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 and Work in Progress

- Kommunikation als Überlebensfaktor in Unternehmen. Interview with Kerstin Richter in *Lernende Organisation* 21: 36-41, September/October 2004.
- 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).
- 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, Smithsonian 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. Principal paper presented to a conference convened for this purpose on December 3-4, 1994, at the Club off Ulm, Germany.
- 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).
- Stepping Stones 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
- Towards a Cybernetics of (Mass-Media) Institutions. Sari Thomas and Nancy Signorielli (Eds.). *Essays in Honor of George Gerbner*, in press. 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).
- 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).
- An Algorithm for Simplifying the Representation of Complex Systems. Paper presented to the International Congress of Cybernetics and Systems, Oxford, England, August 28-September 1, 1972. Philadelphia: The Annenberg School of Communications, University of Pennsylvania, 1972 (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, California, 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).

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