

Publications on Design Issues

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Edited and Coedited Volumes

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.

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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

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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.

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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

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Computer Programs and Instructions

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

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