

Contents

Hannes Leopoldseder: <i>Foreword</i>	2
Gerfried Stocker / Christine Schöpf: <i>Preface</i>	14
Timothy Druckrey: <i>Introduction: Ready or Not?</i>	16

HISTORY

Herbert W. Franke: <i>Prologue (1979)</i>	22
Gene Youngblood: <i>A Medium Matures: Video and the Cinematic Enterprise (1984)</i>	43
Peter Weibel: <i>On the History and Aesthetics of the Digital Image (1984)</i>	51
Robert Moog: <i>MIDI—What It Is and What It Means to Electronic Artists (1984)</i>	66
Hannes Leopoldseder: <i>Ten Indications of an Emerging Computer Culture (1986)</i>	67
Herbert W. Franke: <i>Art from the Screen (1986)</i>	71
Hervé Huitric / Monique Nahas: <i>The Visual Artist Turns to Computer Programming (1986)</i>	81
Roy Ascott: <i>Gesamtdatenwerk: Connectivity, Transformation and Transcendence (1989)</i>	86
Heidi Grundmann: <i>Radio Art (1989)</i>	90
Nick Herbert: <i>Werner Alone Has Looked on Reality Bare: Proposal for a Really New "New Physics" (1990)</i>	101
Scott S. Fisher: <i>Virtual Environments, Personal Simulation & Telepresence (1990)</i>	107
Bruce Sterling: <i>The Future of Cyberspace: Wild Frontier vs. Hyperreal Estate (1990)</i>	114
Hans Moravec: <i>The Universal Robot (1991)</i>	116
Kristine Stiles: <i>Thresholds of Control: Destruction Art and Terminal Culture (1991)</i>	124
Kathy Rae Huffman: <i>Video and Architecture: Beyond the Screen (1994)</i>	135
Peter Weibel: <i>The Noise of the Observer (1995)</i>	140
Gerfried Stocker: <i>Vector in Open Space (1996)</i>	149
Geert Lovink: <i>The Memesis Network Discussion (1996)</i>	152
Richard Dawkins: <i>Mind Viruses (1996)</i>	158
Heimo Ranzenbacher: <i>For a Digital Renaissance of Situationism (1996)</i>	161
Peter Fromherz: <i>Neuron-Silicon Junction or Brain-Computer Junction? (1997)</i>	166
Hari Kunzru: <i>Bad Girl Versus the Astronaut Christ: The Strange Political Journey of the Cyborg (1997)</i>	168
Friedrich Kittler: <i>On the History of the Theory of Information Warfare (1998)</i>	173

THEORY

Jürgen Claus: <i>Expansion of Media Art: What Will Remain of the Electronic Age? (1984)</i> . . .	180
Gerhard Johann Lischka: <i>Media Art (1986)</i>	185
Daniel Charles: <i>"An Ear Alone Is Not a Being" (1987)</i>	188
Douglas Kahn: <i>The Sound of Music (1987)</i>	192
Vilém Flusser: <i>Memories (1988)</i>	202
Peter Weibel: <i>Virtual Worlds: The Emperor's New Bodies (1990)</i>	207
Bilwet / Adilkno / Filwis: <i>Cybermedia and the Fatal Attraction of Realities (1990)</i>	224
Marvin Minsky: <i>The Future Merging of Science, Art, and Psychology (1990)</i>	229
Derrick de Kerckhove: <i>Virtual Reality for Collective Cognitive Processing (1990)</i>	234
Morgan Russell: <i>Riding the Giant Worm to Saturn: Post-Symbolic Communication in Virtual Reality.</i> <i>Excerpt from an Interview with Jaron Lanier (1990)</i>	242
Otto E. Röessler: <i>Endophysics—Physics from Within (1992)</i>	244
John L. Casti: <i>The Three Faces of Life (1993)</i>	249
Thomas Feuerstein / Klaus Strickner: <i>Trace Apparatus (1993)</i>	257
Christopher G. Langton: <i>Artificial Life (1993)</i>	261
Florian Rötzer: <i>Praise to the Parasites (1993)</i>	269
Paul Virilio: <i>The Overexposed City (1994)</i>	276
Edouard Bannwart: <i>The Medialization of the Cities (1994)</i>	284
Keigo Yamamoto: <i>Winds of the Media from Asia: Human Beings and Art in the B-ISDN Era (1994)</i>	286
Melita Zajc: <i>Keep Him on the Phone: The Human Body in the Realm of Technology (1995)</i>	292
Critical Art Ensemble: <i>Slacker Luddites (1995)</i>	300
Timothy Druckrey: <i>NETOPOS . . . NOTOPOS</i> <i>The Fate of Reason in the Global Network:</i> <i>Teleology, Telegraphy, Telephony, Television, Telesthetics (1995)</i>	305
Allucquère Rosanne Stone: <i>Media Memory (1996)</i>	312
Sadie Plant: <i>Becoming Positive (1996)</i>	315
Manuel De Landa: <i>Economics, Computers, and the War Machine (1998)</i>	319
Paul Virilio / Derrick de Kerckhove: <i>Infowar (1998)</i>	326
Birgit Richard: <i>Norn Attacks and Marine Doom (1998)</i>	336

PRACTICE

Robert Adrian: <i>The World in 24 Hours (1982)</i>	346
Otto Piene: <i>Sky Art (1982)</i>	352
Isao Tomita: <i>Mind of Universe (1984)</i>	356
Mike Hentz: <i>The Philosophical Data Bank of Minus Delta T (1984)</i>	358
Gene Youngblood: <i>Virtual Space: The Electronic Environments of Mobile Image (1986)</i> . . .	360
Cabaret Voltaire: <i>A Contemplation of Dangerous Games (1986)</i>	366
John Sanborn: <i>Statement about Art and Technology (1986)</i>	368
Jürgen Claus: <i>Terminal Art (1986)</i>	370
Bazon Brock: <i>Propositions on the Dark Age of Television (1986)</i>	376
Van Gogh TV: <i>Pompino Project (1990)</i>	378
Stadtwerkstatt TV: <i>"Nobody Is Safe" (1991)</i>	383
Peter Weibel / Bob O'Kane: <i>Cartesian Chaos (1992)</i>	389
Karl Sims: <i>Interactive Evolution (1993)</i>	390
KR+cF Knowbotic Research: <i>Simulation Room (1993)</i>	391
Christa Sommerer / Laurent Mignonneau: <i>Interactive Plant Growing (1993)</i>	393
Loren and Rachel Carpenter: <i>Audience Participation (1994)</i>	395
Gerfried Stocker: <i>Horizontal Radio—24 Hours Live (1995)</i>	397
Just Merrit: <i>What's That Supposed to Be, What's Program? (1996)</i>	403
Stelarc: <i>Parasite Visions: Alternate, Intimate, and Involuntary Experiences (1997)</i>	411
Guillermo Gómez-Peña / Roberto Sifuentes: <i>Fragments from "Borderscape 2000."</i> <i>From "The Chicano State Department Chronicles" (1997)</i>	416
Steve Mann: <i>Humanistic Intelligence (1997)</i>	420
Toshio Iwai / Ryuichi Sakamoto: <i>Music Plays Images x Images Play Music (1997)</i>	428
Robin Bargar / Insook Choi: <i>Ground Truth (1998)</i>	431
Andreas Broeckmann: <i>Are You Online? Presence and Participation in Network Art (1998)</i>	438
Biographies	442
Acknowledgments	447
Sources	448