

. Contents .

<i>Preface to the Second Edition</i>	xiii
<i>Preface to the First Edition</i>	xvii
<i>Acknowledgments</i>	xxiii

P • A • R • T • I

Heads Up! Mental Models for Traveling through the Computer World

A • Heads-Up versus Heads-In Views of Computer Systems	2
<i>Rob Kling</i>	
B • A Reader's Guide to <i>Computerization and Controversy</i>	4
<i>Rob Kling</i>	
C • Social Controversies about Computerization	10
<i>Rob Kling</i>	
D • Computers as Tools and Social Systems:	
The Car-Computer Analogy	16
<i>Rob Kling</i>	
E • The Seductive Equation of Technological Progress with Social Progress	22
<i>Rob Kling</i>	
F • Learning about the Possible Futures of Computerization from the Present and the Past	26
<i>Rob Kling</i>	
G • Information and Computer Scientists as Moral Philosophers and Social Analysts	32
<i>Rob Kling</i>	

P • A • R • T • II
The Dreams of Technological Utopianism

A • Hopes and Horrors: Technological Utopianism and Anti-Utopianism in Narratives of Computerization <i>Rob Kling</i>	40
B • 2001: A Meetings Odyssey <i>Ross Weiland</i>	59
C • Boom Time on the New Frontier <i>Thomas A. Stewart</i>	67
D • The Electronic Hive: Embrace It <i>Kevin Kelly</i>	75
E • The Electronic Hive: Refuse It <i>Sven Birkerts</i>	79
F • Electronic Office: Playpen or Prison <i>Langdon Winner</i>	83
G • Computerization Movements and Tales of Technological Utopianism <i>Suzanne Iacono and Rob Kling</i>	85

P • A • R • T • III
The Economic, Cultural, and Organizational Dimensions of Computerization

A • The Centrality of Organizations in the Computerization of Society <i>Rob Kling</i>	108
B • Israel: Of Swords and Software Plowshares <i>Gad Ariav and Seymour Goodman</i>	133
C • Getting the Electronics Just Right: Wells Fargo Is a Case Study in How a Company Can Exploit the Information Revolution <i>Barnaby J. Feder</i>	141
D • How Information Technologies Can Transform Organizations <i>Michael Scott Morton</i>	148
E • B of A's Plans for Computer Don't Add Up <i>Douglas Frantz</i>	161

F • Groupware Goes Boom	170
<i>David Kirkpatrick</i>	
G • Learning from Notes: Organizational Issues in Groupware Implementation	173
<i>Wanda J. Orlikowski</i>	
H • How Much Will a Truly Empowering Technology-Rich Education Cost?	190
<i>Henry Jay Becker</i>	
I • Technology Refusal and the Organizational Culture of Schools	197
<i>Steven Hodas</i>	
J • Great Expectations: PCs and Productivity	219
<i>Martin Neal Baily</i>	
K • Information Technology and the Productivity Challenge	227
<i>Paul Attewell</i>	
L • Where Are the Payoffs from Computerization? Technology, Learning, and Organizational Change	239
<i>John Leslie King</i>	
M • Can Computer Science Solve Organizational Problems? The Case for Organizational Informatics	261
<i>Rob Kling and Jonathan P. Allen</i>	

P • A • R • T • IV

Computerization and the Transformation of Work

A • Computerization at Work	278
<i>Rob Kling</i>	
B • Computerization, Office Routines, and Changes in Clerical Work	309
<i>Suzanne Iacono and Rob Kling</i>	
C • The Case of the Omniscient Organization	316
<i>Gary T. Marx</i>	
D • Mr. Edens Profits from Watching His Workers' Every Move ..	322
<i>Tony Horowitz</i>	
E • Interface Development in a Large Organization: An Observational Study	326
<i>Steven E. Poltrock and Jonathan Grudin</i>	

F • Groupware in Practice: An Interpretation of Work Experiences	348
<i>Christine V. Bullen and John L. Bennett</i>	
G • Computing at Work: Empowering Action by Low-Level Users	383
<i>Andrew Clement</i>	
H • Supporting Articulation Work	407
<i>Lucy Suchman</i>	

P • A • R • T • V

Social Relationships in Electronic Forums

A • Social Relationships in Electronic Forums: Hangouts, Salons, Workplaces, and Communities	426
<i>Rob Kling</i>	
B • Increasing Personal Connections	455
<i>Lee Sproull and Sara Kiesler</i>	
C • Gender and Democracy in Computer-Mediated Communication	476
<i>Susan C. Herring</i>	
D • Finding a Happy Medium: Explaining the Negative Effects of Electronic Communication on Social Life at Work	490
<i>M. Lynne Markus</i>	
E • They Call It Cyberlove	525
<i>Margo Kaufman</i>	
F • The Strange Case of the Electronic Lover	533
<i>Lindsay Van Gelder</i>	
G • Yakety-Yak, Do Talk Back!: PEN, the Nation's First Publicly Funded Electronic Network, Makes a Difference in Santa Monica	547
<i>Joan Van Tassel</i>	
H • Taboo, Consensus, and the Challenge of Democracy in an Electronic Forum	552
<i>Julian Dibbell</i>	
I • Applying Library Intellectual Freedom Principles to Public and Academic Computers	569
<i>Carl M. Kadie</i>	

J • The Electronic Journal: What, Whence, and When?	580
<i>Ann Okerson</i>	
K • I Heard It through the Internet	594
<i>Walt Crawford</i>	
L • Technology, Scholarship, and the Humanities: The Implications of Electronic Information	597
<i>Vartan Gregorian</i>	
M • On the Road Again? If Information Highways Are Anything like Interstate Highways—Watch Out!	606
<i>Richard Sclove and Jeffrey Scheuer</i>	

P • A • R • T • VI
Privacy and Social Control

A • Information Technologies and the Shifting Balance between Privacy and Social Control	614
<i>Rob Kling</i>	
B • Your Personal Information Has Gone Public	637
<i>David F. Linowes</i>	
C • The Bill of Rights of the Constitution of the United States	643
Prepared by <i>Gerald Murphy</i>	
D • Computer Matching Is a Serious Threat to Individual Rights	645
<i>John Shattuck</i>	
E • The Government Needs Computer Matching to Root Out Waste and Fraud	652
<i>Richard P. Kusserow</i>	
F • Clipper Chip Will Reinforce Privacy	659
<i>Dorothy E. Denning</i>	
G • Wiretapping Bill: Costly and Intrusive	664
<i>Marc Rotenberg</i>	
H • Privacy: How Much Data Do Direct Marketers Really Need?	669
<i>Denison Hatch</i>	
I • Direct Marketing Is Not a Significant Privacy Threat	679
<i>Robert Posch</i>	

J • What to Do When They Ask for Your Social Security Number	686
<i>Chris Hibbert</i>	
K • Markets and Privacy	697
<i>Kenneth Laudon</i>	
L • Information Entrepreneurialism, Information Technologies, and the Continuing Vulnerability of Privacy	727
<i>Rob Kling, Mark S. Ackerman, and Jonathan P. Allen</i>	

P • A • R • T • VII

System Safety and Social Vulnerability

A • Systems Safety, Normal Accidents, and Social Vulnerability ..	746
<i>Rob Kling</i>	
B • RISKS-FORUM Digest Contributions	764
<i>R. Aminzade and Michael Slavitch</i>	
C • Safety-Critical Computing: Hazards, Practices, Standards, and Regulation	767
<i>Jonathan Jacky</i>	
D • Aging Airways	793
<i>Gary Stix</i>	
E • Limits of Correctness in Computers	810
<i>Brian Cantwell Smith</i>	
F • Caught in the Grip of RSI: A Firsthand Account	826
<i>Evan Williamson</i>	
G • Office Automation's Threat to Health and Productivity: A New Management Concern	830
<i>E. M. Omar Khalil and Jessie E. Melcher</i>	
H • Ongoing Network Monitoring Attacks: CERT Advisory, February 3, 1994	838
<i>Computer Emergency Response Team</i>	
I • Risks of Technology	844
<i>Peter G. Neumann</i>	

P • A • R • T • VIII
Ethical Perspectives and Professional Responsibilities
for Information and Computer Science Professionals

- A • Beyond Outlaws, Hackers, and Pirates: Ethical Issues in the Work of Information and Computer Science Professionals 848
Rob Kling
- B • All in a Day’s Work: Nine Provocative Examples in the Practice of Computing Professionals 870
Donn B. Parker, Susan Swope, Bruce N. Baker, and Eric A. Weiss
- C • Codes of Professional Ethics 876
Ronald E. Anderson, Deborah G. Johnson, Donald Gotterbarn, and Judith Perrolle
- D • Code of Ethics and Professional Conduct (1992) 878
Association for Computing Machinery
- E • Confronting Ethical Issues of Systems Design in a Web of Social Relationships 889
Ina Wagner
- F • Power in Systems Design 903
Bo Dahlbom and Lars Mathiassen
- G • Considering Privacy in the Development of Multimedia Communications 907
Andrew Clement
- H • New Principles for Engineering Ethics 932
Edward Wenk, Jr.
- Index* 945