# Table of Contents

Preface ........................................................................................................................................... xxx

Acknowledgment ............................................................................................................................... xxxii

**VOLUME I**

**Section I**

**Theoretical Frameworks in Technoethics**

**Chapter I**
The Emerging Field of Technoethics ........................................................................................................ 1  
*Rocci Luppicini, University of Ottawa, Canada*

**Chapter II**
A Multi-Disciplinary Approach to Technoethics ......................................................................................... 20  
*Marc J. de Vries, Delft University of Technology, The Netherlands*

**Chapter III**
Technoethics: An Anthropological Approach ............................................................................................. 32  
*Daniela Cerqui, Université de Lausanne, Switzerland*  
*Kevin Warwick, University of Reading, UK*

**Chapter IV**
A Technoethical Approach to the Race Problem in Anthropology ............................................................. 44  
*Michael S. Billinger, Edmonton Police Service, Canada*

**Chapter V**
The Ethics of Human Enhancement in Sport ............................................................................................... 69  
*Andy Miah, University of the West of Scotland, Scotland*

**Chapter VI**
Education of Ethics of Science and Technology Across Cultures .............................................................. 85  
*Darryl Macer, Regional Unit for Social and Human Sciences in Asia and the Pacific (RUSHSAP), UNESCO, Thailand*
Chapter VII
Planning, Interests, and Argumentation ................................................................. 103
Seppo Visala, University of Tampere, Finland

Section II
Research Areas of Technoethics

Chapter VIII
Ethics Review on Externally-Sponsored Research in Developing Countries .................. 112
Alireza Bagheri, University of Toronto, Canada

Chapter IX
Social and Ethical Aspects of Biomedical Research .................................................. 126
Gerrhard Fortwengel, University for Health Sciences, Medical Informatics and Technology, Austria
Herwig Ostermann, University for Health Sciences, Medical Informatics and Technology, Austria
Verena Stuehlinger, University for Health Sciences, Medical Informatics and Technology, Austria
Roland Staudinger, University for Health Sciences, Medical Informatics and Technology, Austria

Chapter X
Ethical Aspects of Genetic Engineering and Biotechnology ........................................ 145
Stefano Fait, University of St. Andrews, Scotland

Chapter XI
Nanoscale Research, Ethics, and the Military ............................................................. 162
Timothy F. Murphy, University of Illinois College of Medicine, USA

Chapter XII
Healthcare Ethics in the Information Age ................................................................. 170
Keith Bauer, Marquette University, USA

Chapter XIII
Ethical Theories and Computer Ethics ....................................................................... 186
Matthew Charlesworth, The Jesuit Institute, South Africa
David Sewry, Rhodes University, South Africa

Chapter XIV
Artificial Moral Agency in Technoethics .................................................................... 205
John P. Sullins, Sonoma State University, USA

Chapter XV
Ethical Controversy over Information and Communication Technology ................... 222
Pilar Alejandra Cortés Pascual, University of Zaragoza, Spain
Chapter XVI
The Cyborg and the Noble Savage: Ethics in the War on Information Poverty ........................................... 232
  Martin Ryder, University of Colorado at Denver, USA

Chapter XVII
Becoming a Digital Citizen in a Technological World ................................................................. 250
  Mike Ribble, Kansas State University, USA

Chapter XVIII
Technoethics in Education for the Twenty-First Century ........................................................ 263
  Deb Gearhart, Troy University, USA

Chapter XIX
The Ethics of Global Communication Online ................................................................. 278
  May Thorseth, Norwegian University of Science and Technology, Norway

Section III
Case Studies and Applications in Technoethics

Chapter XX
Engaging Youth in Health Promotion Using Multimedia Technologies: Reflecting on 10 Years of TeenNet Research Ethics and Practice ................................................................. 295
  Cameron Norman, University of Toronto, Canada
  Adrian Guta, University of Toronto, Canada
  Sarah Flicker, York University, Canada

Chapter XXI
Ethical Challenges of Engaging Chinese in End-of-Life Talk ............................................. 316
  Samantha Mei-che Pang, Hong Kong Polytechnic University, Hong Kong
  Helen Yue-lai Chan, Hong Kong Polytechnic University, Hong Kong

Chapter XXII
Community Education in New HIV Prevention Technologies Research .......................... 328
  Busi Nkala, Chris Hani Baragwanath Hospital, South Africa

Chapter XXIII
The Public / Private Debate: A Contribution to Intercultural Information Ethics ................ 339
  Makoto Nakada, University of Tsukuba, Japan
  Rafael Capurro, Stuttgart Media University, Germany
Chapter XXIV
Ethical, Cultural and Socio-Economic Factors of Software Piracy Determinants in a Developing Country: Comparative Analysis of Pakistani and Canadian University Students ....... 354

Arsalan Butt, Simon Fraser University, Canada
Adeel I. Butt, Simon Fraser University, Canada

Chapter XXV
Nanoethics: The Role of News Media in Shaping Debate ............................................................. 373

A. Anderson, University of Plymouth, UK
S. Allan, Bournemouth University, UK
A. Petersen, Monash University, Australia
C. Wilkinson, University of the West of England, Bristol, UK

Chapter XXVI
Computing and Information Ethics Education Research ................................................................. 391

Russell W. Robbins, Marist College, USA
Kenneth R. Fleischmann, University of Maryland, College Park, USA
William A. Wallace, Rensselaer Polytechnic Institute, USA

Chapter XXVII
The Ethical Dilemma over Money in Special Education ............................................................... 409

Jennifer Candor, Gahanna Lincoln High School, USA

Chapter XXVIII
Educational Technoethics Applied to Career Guidance ................................................................ 426

Pilar Alejandra Cortés Pascual, University of Zaragoza, Spain

Chapter XXIX
The Scholarship of Teaching Engineering: Some Fundamental Issues ........................................... 439

A.K. Haghi, The University of Guilan, Iran
V. Mottaghitalab, The University of Guilan, Iran
M. Akbari, The University of Guilan, Iran

VOLUME II

Section IV
Emerging Trends and Issues in Technoethics

Chapter XXX
Which Rights for Which Subjects? Genetic Confidentiality and Privacy in the Post-Genomic Era ................................................................. 454

Antoinette Rouvroy, European University Institute, Italy
Chapter XXXI
Predictive Genetic Testing, Uncertainty, and Informed Consent ................................................................. 474
Eduardo A. Rueda, Universidad Javeriana, Colombia

Chapter XXXII
Privacy, Contingency, Identity, and the Group ................................................................................................. 496
Soraj Hongladarom, Chulalongkorn University, Thailand

Chapter XXXIII
The Ethics of Gazing: The Politics of Online Pornography .............................................................................. 512
Y. Ibrahim, University of Brighton, UK

Chapter XXXIV
The Ethics of Deception in Cyberspace ............................................................................................................. 529
Neil C. Rowe, U.S. Naval Postgraduate School, USA

Chapter XXXV
Cyber Identity Theft .......................................................................................................................................... 542
Lynne D. Roberts, Curtin University of Technology, Australia

Chapter XXXVI
Walking the Information Overload Tightrope ..................................................................................................... 558
A. Pablo Iannone, Central Connecticut State University, USA

Chapter XXXVII
Cyber-Victimization ......................................................................................................................................... 575
Lynne D. Roberts, Curtin University of Technology, Australia

Chapter XXXVIII
Spyware ............................................................................................................................................................. 593
Mathias Klang, University of Lund, Sweden & University of Göteborg, Sweden

Chapter XXXIX
In Vitro Fertilization and the Embryonic Revolution ...................................................................................... 609
D. Gareth Jones, University of Otago, New Zealand
Maja I. Whitaker, University of Otago, New Zealand

Chapter XL
Inter-Organizational Conflicts in Virtual Alliances .......................................................................................... 623
Joyce Yi-Hui Lee, University of Bath, UK
Niki Panteli, University of Bath, UK

Chapter XLI
From Coder to Creator: Responsibility Issues in Intelligent Artifact Design .................................................. 635
Andreas Matthias, Lingnan University, Hong Kong
Chapter XLII
Historical Perspective of Technoethics in Education .......................................................... 651
   J. José Cortez, Syracuse University, USA

Chapter XLIII
Podcasting and Vodcasting in Education and Training ...................................................... 668
   Heidi L. Schnackenberg, SUNY Plattsburgh, USA
   Edwin S. Vega, SUNY Plattsburgh, USA
   Zachary B. Warner, SUNY Plattsburgh, USA

Chapter XLIV
Technoethics in Schools ....................................................................................................... 680
   Darren Pullen, University of Tasmania, Australia

Section V
Further Reading in Technoethics

Chapter XLV
Moral Psychology and Information Ethics: Psychological Distance and the Components of Moral Behavior in a Digital World ................................................................. 700
   Charles R. Crowell, University of Notre Dame, USA
   Darcia Narvaez, University of Notre Dame, USA
   Anna Gomberg, University of Notre Dame, USA

Chapter XLVI
   José-Rodrigo Córdoba, University of Hull, UK

Chapter XLVII
Ethical Issues in Web-Based Learning .................................................................................. 729
   Joan D. McMahon, Towson University, USA

Chapter XLVIII
We Cannot Eat Data: The Need for Computer Ethics to Address the Cultural and Ecological Impacts of Computing ................................................................. 736
   Barbara Paterson, Marine Biology Research Institute, Zoology Department,
   University of Cape Town, South Africa

Chapter XLIX
Current and Future State of ICT Deployment and Utilization in Healthcare:
An Analysis of Cross-Cultural Ethical Issues ....................................................................... 752
   Bernd Carsten Stahl, De Montfort University, UK
   Simon Rogerson, De Montfort University, UK
   Amin Kashmeery, University of Durham, UK
Chapter L
Emerging Technologies, Emerging Privacy Issues ............................................................... 767
   Sue Conger, University of Dallas, USA

Chapter LI
Ethics of “Parasitic Computing”: Fair Use or Abuse of TCP/IP Over the Internet? .................. 794
   Robert N. Barger, University of Notre Dame, USA
   Charles R. Crowell, University of Notre Dame, USA

Chapter LII
Simulating Complexity-Based Ethics for Crucial Decision Making in Counter Terrorism ........ 806
   Cecilia Andrews, University of New South Wales, Australia
   Edward Lewis, University of New South Wales, Australia

Chapter LIII
Legal and Ethical Implications of Employee Location Monitoring ...................................... 825
   Gundars Kaupins, Boise State University, USA
   Robert Minch, Boise State University, USA

Chapter LIV
New Ethics for E-Business Offshore Outsourcing .............................................................. 843
   Fjodor Ruzic, Institute for Informatics, Croatia