

---

# Contents

---

<i>List of Contributors</i>	viii
<i>Editor Introduction</i>	xii

**PART I**

**Ethical Space and Experience** 1

<b>1 Data, Technology, and Gender: Thinking About (and From) Trans Lives</b>	3
ANNA LAUREN HOFFMANN	
<b>2 Discrimination</b>	14
D. E. WITTKOWER	
<b>3 Video Games and Ethics</b>	29
MONIQUE WONDERLY	
<b>4 Social Networking: The Dialectics of Sharing</b>	42
YONI VAN DEN EEDE AND KATLEEN GABRIELS	
<b>5 Technoart</b>	54
DON IHDE	
<b>6 The Philosophy of Art and Technology</b>	62
JESSIE MANN	

**PART 2**

**Political Space and Agency** 71

<b>7 Robots With Guns</b>	73
SHANNON VALLOR	
<b>8 Educational Technology</b>	82
ANDREW WELLS GARNAR	

<b>9 Religious Transcendence</b>	<b>92</b>
CARL MITCHAM	
<b>10 Agency and Citizenship in a Technological Society</b>	<b>98</b>
ANDREW FEENBERG	
<b>11 Animals in Philosophy of Technology</b>	<b>108</b>
ASHLEY SHEW	
<b>PART 3</b>	
<b>Virtual Space and Property</b>	<b>117</b>
<b>12 Obscurity and Privacy</b>	<b>119</b>
EVAN SELINGER AND WOODROW HARTZOG	
<b>13 Copyright Between Economic and Cultural Models of Creativity</b>	<b>130</b>
GORDON HULL	
<b>14 Cyberwarfare</b>	<b>141</b>
BENJAMIN C. JANTZEN	
<b>15 The Cloud</b>	<b>154</b>
CRAIG A. CONDELLA AND JULIE C. SWIERCZEK	
<b>16 Ethical Issues in Big Data</b>	<b>164</b>
DEBORAH G. JOHNSON	
<b>17 Virtual Environments</b>	<b>174</b>
JOHNNY HARTZ SØRAKER	
<b>PART 4</b>	
<b>Personal Space and Design</b>	<b>183</b>
<b>18 The Organization of User Experience</b>	<b>185</b>
ROBERT ROSENBERGER	
<b>19 Engineering Design</b>	<b>196</b>
PIETER E. VERMAAS	
<b>20 Design</b>	<b>208</b>
ANN JOHNSON	
<b>21 Dancing the Device: A Translational Approach to Technology</b>	<b>216</b>
ALBRECHT FRITZSCHE	



---

<b>22 On Harnessing of Birth in the Technical Age</b>	224
DANA S. BELU	
<b>23 Moore's Regula</b>	238
CYRUS C. M. MODY	
<b>PART 5</b>	
<b>Inner Space and Environment</b>	249
<b>24 Is Renewable Energy Technology Revolutionary?</b>	251
ROBERT DARROW	
<b>25 Geoengineering and Climate Change</b>	263
TINA SIKKA	
<b>26 Fracking</b>	281
ADAM BRIGGLE	
<b>27 Climate Change and Philosophy of Technology</b>	292
ROBERT-JAN GEERTS	
<b>PART 6</b>	
<b>Outer Space and Imagination</b>	303
<b>28 Space Tourism and Science Fiction</b>	305
ROSALYN W. BERNE	
<b>29 Well-Ordered Engineering: Participatory Technology Assessment at NASA</b>	314
ZACHARY PIRTLE AND DAVID C. TOMBLIN	
<b>30 When Loving Your Planet Isn't Enough</b>	326
DIANA P. HOYT	
<b>31 Transcendence in Space</b>	340
JOSEPH C. PITT	
<b>32 The Role of Technology in Natural Science</b>	346
NICHOLAS RESCHER	
<i>Index</i>	353