

## Contents

	<i>page</i>
<i>List of Tables</i>	ix
<i>List of Contributors</i>	xi
<i>Acknowledgements</i>	xv
<b>Introduction</b>	1
Marcello Ienca, Oreste Pollicino, Laura Liguori, Elisa Stefanini and Roberto Andorno	
<b>PART I LIFE SCIENCES AND HUMAN RIGHTS</b>	
<b>1</b> M-Health at the Crossroads between the Right to Health and the Right to Privacy	11
Oreste Pollicino, Laura Liguori and Elisa Stefanini	
<b>2</b> Neurorights and the Chilean Initiative	26
Emily Einhorn and Rafael Yuste	
<b>3</b> Persuasive Technologies and the Right to Mental Liberty: The ‘Smart’ Rehabilitation of Criminal Offenders	32
Sjors Ligthart, Gerben Meynen and Thomas Douglas	
<b>4</b> The Ethics and Laws of Medical Big Data	48
Hrefna Dögg Gunnarsdóttir, I. Glenn Cohen, Timo Minssen and Sara Gerke	
<b>5</b> The Right to Have a Child: Through the Lens of the Third Phase Reproductive Technologies	56
Judit Sándor	
<b>6</b> Medical Robots and the Right to Health Care: A Progressive Realization	70
Robin L. Pierce and Eduard Fosch-Villaronga	
<b>7</b> Life-Maintaining Technology and the Right to Die	86
Federico Gustavo Pizzetti	

8	The Spread of Telemedicine in Daily Practice: Weighing Risks and Benefits Carlo Botrugno	102
9	Reproductive Technologies and Reproductive Rights: The Role of Law and Ethics Belinda Bennett and Bernadette Richards	113
<b>PART II INFORMATION AND COMMUNICATION TECHNOLOGIES AND HUMAN RIGHTS</b>		
10	The Right to Internet Access: A Comparative Constitutional Legal Framework Oreste Pollicino	125
11	Face Recognition and the Right to Stay Anonymous Clare Garvie	139
12	Artificial Intelligence and the Right to Algorithmic Transparency Marc Rotenberg	153
13	Machine Learning, Cognitive Sovereignty and Data Protection Rights with Respect to Automated Decisions Lee A. Bygrave	166
14	Going Dark or Living Forever: The Right to Be Forgotten, Search Engines and Press Archives Peggy Valcke and Simon Verschaeve	189
15	Artificial Intelligence and Children's Rights Ronny Bogani and Burkhard Schafer	215
16	Internet of Things Devices, Citizen Science Research and the Right to Science: Ethical and Legal Issues James Scheibner, Anna Jobin and Effy Vayena	231
17	Connected but Still Excluded? Digital Exclusion beyond Internet Access Sofia Ranchordás	244
<b>PART III TOWARDS A CONVERGENCE</b>		
18	Technological Changes and Rights Evolution in the Bio-digital Era: A Philosophical Overview Marta Bertolaso and Alfredo Marcos	261
19	Human Dignity, Life Sciences Technologies and the Renewed Imperative to Preserve Human Freedom Roberto Andorno	273

*Contents*

vii

- |    |   |     |
|----|---|-----|
| 20 | <b>Human–Machine Symbiosis and the Hybrid Mind: Implications for Ethics, Law and Human Rights</b> | 286 |
|    | Christoph Bublitz, Jennifer Chandler and Marcello Ienca   |     |
| 21 | <b>Epilogue: Technology, Human Rights and the Future of the Human</b>                             | 304 |
|    | Marcello Ienca  |     |