

Contents

1	Introduction	1
	Markus Christen, Bert Gordijn, and Michele Loi	
Part I Foundations		
2	Basic Concepts and Models of Cybersecurity	11
	Dominik Herrmann and Henning Pridöhl	
3	Core Values and Value Conflicts in Cybersecurity: Beyond Privacy Versus Security	45
	Ibo van de Poel	
4	Ethical Frameworks for Cybersecurity	73
	Michele Loi and Markus Christen	
5	Cybersecurity Regulation in the European Union: The Digital, the Critical and Fundamental Rights	97
	Gloria González Fuster and Lina Jasmontaite	
Part II Problems		
6	A Care-Based Stakeholder Approach to Ethics of Cybersecurity in Business	119
	Gwenyth Morgan and Bert Gordijn	
7	Cybersecurity in Health Care	139
	Karsten Weber and Nadine Kleine	
8	Cybersecurity of Critical Infrastructure	157
	Eleonora Viganò, Michele Loi, and Emad Yaghmaei	
9	Ethical and Unethical Hacking	179
	David-Olivier Jaquet-Chiffelle and Michele Loi	

10	Cybersecurity and the State	205
	Eva Schlehahn	
11	Freedom of Political Communication, Propaganda and the Role of Epistemic Institutions in Cyberspace	227
	Seumas Miller	
12	Cybersecurity and Cyber Warfare: The Ethical Paradox of ‘Universal Diffidence’	245
	George Lucas	
13	Cyber Peace: And How It Can Be Achieved	259
	Reto Inversini	

Part III Recommendations

14	Privacy-Preserving Technologies	279
	Josep Domingo-Ferrer and Alberto Blanco-Justicia	
15	Best Practices and Recommendations for Cybersecurity Service Providers	299
	Alexey Kirichenko, Markus Christen, Florian Grunow, and Dominik Herrmann	
16	A Framework for Ethical Cyber-Defence for Companies	317
	Salome Stevens	
17	Towards Guidelines for Medical Professionals to Ensure Cybersecurity in Digital Health Care	331
	David Koeppe	
18	Norms of Responsible State Behaviour in Cyberspace	347
	Paul Meyer	
	Appendix	361
	Index	377