

Contents

1	The Rise of Biometric Identification:	
	Fingerprints and Applied Ethics	1
1.1	Overview of Biometric Identification	1
1.2	The First Biometric: Fingerprint Identification	3
1.3	Applied Ethics	7
1.4	Collective Moral Responsibility	9
1.5	Fingerprinting: Key Ethical Issues.	14
1.6	Conclusion	17
	References.	17
2	Facial Recognition and Privacy Rights	21
2.1	Facial Recognition	21
	2.1.1 Databases	23
	2.1.2 CCTV Integration	24
	2.1.3 Social Media Integration	27
2.2	Ethical Principles	29
	2.2.1 Privacy	29
	2.2.2 Security and Public Safety.	33
2.3	Conclusion	35
	References.	36
3	DNA Identification, Joint Rights and Collective Responsibility	39
3.1	DNA Identification.	39
3.2	Legal Issues	41
3.3	Genomics and Forensic Genealogy	44
3.4	Ethical Analysis	47
	3.4.1 Joint Rights to Genomic Data	51
	3.4.2 Collective Moral Responsibility to Assist Law Enforcement	52
3.5	Conclusion	53
	References.	54

4	Biometric and Non-biometric Integration: Dual Use Dilemmas	57
4.1	Data Systems and Integration	57
4.1.1	Metadata	60
4.1.2	Smartphone Applications	64
4.1.3	Social Media	66
4.2	Ethical Analysis	68
4.2.1	Dual Use Ethical Dilemmas	69
4.3	Conclusion	75
	References	76
5	The Future of Biometrics and Liberal Democracy	79
5.1	Future Biometrics	79
5.2	Biometric Futures	81
5.2.1	Social Credit Systems	81
5.2.2	Technology-Based Regulation	85
5.3	Liberal Democracy	88
5.4	Conclusion	91
	References	93
	Index	97