

Contents

1 Modeling Augmented Humanity	1
1.1 Theories of Agency	15
1.2 Metamodels of Agency	21
1.3 Dimensions of Metamodeling	25
References	32
2 Historical Metamodels of Agency	39
2.1 Major Historical Periods	39
2.2 Agentic Activation Mechanisms	49
2.3 Dilemmas of Digital Augmentation	57
2.4 Patterns of Supervision	61
2.5 Implications for Augmented Humanity	65
References	70
3 Agentic Modality	75
3.1 Mediators of Agentic Modality	77
3.2 Impact of Digitalization	81
3.3 Patterns of Ambimodality	86
3.4 Wider Implications	91
References	96

4 Problem-Solving	103
4.1 Metamodels of Problem-Solving	109
4.2 Dilemmas of Digital Augmentation	112
4.3 Illustrative Metamodels	119
4.4 Implications for Problem-Solving	126
References	132
5 Cognitive Empathy	139
5.1 Theories of Cognitive Empathy	143
5.2 Metamodels of Cognitive Empathizing	152
5.3 Wider Implications	158
References	162
6 Self-Regulation	169
6.1 Dilemmas of Self-Regulation	179
6.2 Illustrations of Augmented Self-Regulation	183
6.3 Wider Implications	189
References	194
7 Evaluation of Performance	199
7.1 Theoretical Perspectives	202
7.2 Impact of Digitalization	206
7.3 Metamodels of Evaluation	210
7.4 Implications for Other Fields	216
References	220
8 Learning	225
8.1 Theories of Learning	227
8.2 Digitally Augmented Learning	231
8.3 Illustrative Metamodels of Learning	235
8.4 Wider Implications	239
References	242

9	Self-Generation	247
9.1	Self-Generative Dilemmas	250
9.2	Illustrations of Self-Generation	255
9.3	Implications for Human Flourishing	262
	References	266
10	Toward a Science of Augmented Agency	269
10.1	Science of Augmented Agency	270
10.2	Hyperparameters of Future Science	274
10.3	Domains of Augmented Science	280
	References	290
	Glossary of Defined Terms	295
	Index	297