Contents

List of illustrations ix
Foreword by James Sheptycki x
List of contributors xiv

Introduction 1
JOHN L.M. MCDANIEL AND KEN G. PEASE

PART I
Bias and big data 39

1 The future of AI in policing: exploring the sociotechnical imaginaries 41
JANET CHAN

2 Predictive policing through risk assessment 58
MELISSA HAMILTON

3 Policing, AI and choice architecture 79
JOHN L.M. MCDANIEL AND KEN G. PEASE

4 What big data in health care can teach us about predictive policing 111
I. GLENN COHEN AND HARRY GRAVER

5 Artificial intelligence and online extremism: challenges and opportunities 132
MIRIAM FERNANDEZ AND HARITH ALANI

6 Predictive policing and criminal law 163
MANUEL A. UTSET

PART II
Police accountability and human rights 183

7 Accountability and indeterminacy in predictive policing 185
AARON SHAPIRO

8 Machine learning predictive algorithms and the policing of future crimes: governance and oversight 214
ALEXANDER BABUTA AND MARION OSWALD

9 'Algorithmic impropriety' in UK policing contexts: a developing narrative? 237
JAMIE GRACE

10 Big data policing: governing the machines? 254
MICHAEL ROWE AND RICK MUIR

11 Decision-making: using technology to enhance learning in police officers 269
PAMELA RICHARDS, DEBBIE ROBERTS AND MARK BRITTON

Conclusion 289
JOHN L.M. MCDANIEL AND KEN G. PEASE

Index 298