

## CONTENTS

<i>List of contributors</i>	<i>page</i>	viii
<i>Acknowledgements</i>	x	
<b>PART I Introduction</b>		1
1 Autonomous weapons systems: living a dignified life and dying a dignified death		
CHRISTOF HEYNS	3	
<b>PART II Meanings of autonomy and human cognition under automation</b>		21
2 Staying in the loop: human supervisory control of weapons		
NOEL SHARKEY	23	
3 The autonomy of technological systems and responsibilities for their use		
GIOVANNI SARTOR AND ANDREA OMICINI	39	
4 Human-machine autonomies		
LUCY SUCHMAN AND JUTTA WEBER	75	
<b>PART III Autonomous weapons systems and human dignity</b>		103
5 Are autonomous weapons systems a threat to human dignity?		
DIETER BIRNBACHER	105	

6 On banning autonomous weapons systems: from deontological to wide consequentialist reasons  
GUGLIELMO TAMBURRINI 122

**PART IV Risk, transparency and legal compliance in the regulation of autonomous weapons systems 143**

7 Judgment, liability and the risks of riskless warfare  
PABLO KALMANOVITZ 145

8 Autonomous weapons systems and transparency: towards an international dialogue  
SARAH KNUCKEY 164

9 A human touch: autonomous weapons, DoD Directive 3000.09 and the interpretation of 'appropriate levels of human judgment over the use of force'  
DAN SAXON 185

10 Autonomous weapons systems: managing the inevitability of 'taking the man out of the loop'  
GEOFFREY S. CORN 209

**PART V New frameworks for collective responsibility 243**

11 The obligation to exercise discretion in warfare: why autonomous weapons systems are unlawful  
ELIAV LIEBLICH AND EYAL BENVENISTI 245

12 Autonomy and uncertainty: increasingly autonomous weapons systems and the international legal regulation of risk  
NEHAL BHUTA AND STAVROS-EVDOKIMOS PANTAZOPOULOS 284

**PART VI New frameworks for individual responsibility 301**

13 Autonomous weapons systems: new frameworks for individual responsibility  
NEHA JAIN 303

14 Refining responsibility: differentiating two types of responsibility issues raised by autonomous weapons systems  
HIN-YAN LIU 325

**PART VII Conclusion 345**

15 Present futures: concluding reflections and open questions on autonomous weapons systems  
NEHAL BHUTA, SUSANNE BECK AND ROBIN GEIß 347

*Index* 384