

Contents

Part I Introduction

1 Drones Here, There and Everywhere Introduction and Overview . . .	3
Bart Custers	
2 Drone Technology: Types, Payloads, Applications, Frequency Spectrum Issues and Future Developments	21
Bas Vergouw, Huub Nagel, Geert Bondt and Bart Custers	
3 Big Data, Drone Data: Privacy and Ethical Impacts of the Intersection Between Big Data and Civil Drone Deployments.	47
Rachel Finn and Anna Donovan	

Part II Opportunities and Threats

4 Deliveries by Drone: Obstacles and Sociability	71
Sally A. Applin	
5 Policing from Above: Drone Use by the Police	93
Bart Engberts and Edo Gillissen	
6 The Humanitarian Drone and the Borders: Unveiling the Rationales Underlying the Deployment of Drones in Border Surveillance	115
Luisa Marin	
7 The Humanitarian Use of Drones as an Emerging Technology for Emerging Needs	133
Tomas Martini, Michele Lynch, Abi Weaver and Tameick van Vuuren	
8 Terrorism and National Security	153
Sofia Michaelides-Mateou	

Part III Ethical Issues

9 The Humanization of Drones: Psychological Implications on the Use of Lethal Autonomous Weapon Systems 173
David Bergman

10 Unmanned? The Bodily Harms and Moral Valor of Drone Warfare 189
Nicholas R. Brown

11 Victims of Drone Warfare: Stretching the Boundaries of Conflict; Ethics and Remote Control Warfare. 209
Wim Zwijnenburg and Zorah Blok

12 Drones, Morality, and Vulnerability: Two Arguments Against Automated Killing. 229
Mark Coeckelbergh

Part IV Legal Issues

13 Key Provisions in Current Aviation Law 241
Benjamyn Scott

14 Civilian Use of Drones as a Test Case for the Right to Privacy: An Israeli Perspective 261
Uri Volovelsky

15 Access to an Effective Remedy and Reparations for Civilian Victims of Armed Drone Strikes 289
Quirine Eijkman and Marlieke Bakker

16 A Comparative Global Analysis of Drone Laws: Best Practices and Policies 301
Timothy Ravich

Part V Conclusions

17 Making Drones More Acceptable with Privacy Impact Assessments 325
David Wright and Rachel Finn

18 The Public Acceptance Challenge and Its Implications for the Developing Civil Drone Industry. 353
Alan McKenna

19 Flying to New Destinations: The Future of Drones 371
Bart Custers



<http://www.springer.com/978-94-6265-131-9>

The Future of Drone Use
Opportunities and Threats from Ethical and Legal
Perspectives

Custers, B. (Ed.)

2016, XXIII, 386 p. 5 illus., 3 illus. in color., Hardcover

ISBN: 978-94-6265-131-9

A product of T.M.C. Asser Press