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Nota di contenuto	Introduction : technological innovation, non-obvious warfare and challenges to international law / Rachel Kerr -- Obvious and non-obvious : the changing character of warfare / James Gow and Ernst Dijkhoorn -- Weapons review and new technology / Bill Boothby -- A defence technologist's view of IHL / Tony Gillespie -- Can the law regulate the humanitarian effects of new technologies? / Brian Rappert -- Computer network attacks under the jus ad bellum and the jus in bello : "armed" effects and consequences / James Gow and Elaine Korzak -- Computer network attacks under the jus ad bellum and the jus in bello : distinction, proportionality and attribution / Elaine Korzak and James Gow -- Proportionality in cyber-targeting / Marco Roscini -- Digital intelligence and armed conflict after snowden / Sir David Omand -- Cyber security and the human factor / James Gow -- Autonomy of humans and robots / Thrishanta Nannayakkara -- Autonomous agents and command responsibility / Jack McDonald -- Legal-policy challenges of armed drones and autonomous weapon systems / Matthew Waxman and Kenneth Anderson -- The "robots don't rape" controversy / Maziar Homaynoujenad -- Humanity and lethal robots :

an engineering perspective / Tony Gillespie -- Bio-technological innovation, non-obvious warfare and challenges to international law / Christopher Lowe -- Synthetic biology and the biological weapons convention / Filippa Lentzos and Cecile Hellestveit -- A threat assessment of biological weapons : past, present and future / Matteo Bencic Habian -- Challenges in regulation : the synthetic biology dilemma : dual use and the limits of academic freedom / Guglielmo Verdirame and Matteo Bencic Habian -- Space warfare and the challenge to international law / Bleddyn Bowen -- Space and private companies: consequences for global security / Pawel Frankowski -- Biometrics and human security / James Gow and Georg Gassauer -- Future war crimes and the military (1) : cyber warfare / James Gow and Ernst Dijkhoorn -- Future war crimes and the military (2) : autonomy and synthetic biology / James Gow and Ernst Dijkhoorn -- Future war crimes and prosecution : gathering digital evidence / Maziar Homainoujenad -- The russian concept of information warfare / Oscar Jonsson -- Unconventional warfare and technological innovation in Islam : ethics and legality / Ariane Tabatabai -- France and cyber-war / Anne-Marie Le Gloannec and Fleur Richard-Tixier -- The US, the UK, Russia and China : regulating cyber attacks under international law : developments at the united nations / Elaine Korzak -- The US, the UK, Russia and China : regulating cyber attacks under international law : the potential for dedicated norms / Elaine Korzak.

Sommario/riassunto

This volume provides an authoritative, cutting-edge resource on the characteristics of both technological and social change in warfare in the twenty-first century, and the challenges such change presents to international law. The character of contemporary warfare has recently undergone significant transformation in several important respects: the nature of the actors, the changing technological capabilities available to them, and the sites and spaces in which war is fought. These changes have augmented the phenomenon of non-obvious warfare, making understanding warfare one of the key challenges. Such developments have been accompanied by significant flux and uncertainty in the international legal sphere. This handbook brings together a unique blend of expertise, combining scholars and practitioners in science and technology, international law, strategy and policy, in order properly to understand and identify the chief characteristics and features of a range of innovative developments, means and processes in the context of obvious and non-obvious warfare. The handbook has six thematic sections: Law, war and technology Cyber warfare Autonomy, robotics and drones Synthetic biology New frontiers International perspectives. This interdisciplinary blend and the novel, rich and insightful contribution that it makes across various fields will make this volume a crucial research tool and guide for practitioners, scholars and students of war studies, security studies, technology and design, ethics, international relations and international law.
