

Abstract

The thesis considered the feasibility of space warfare with an emphasis on the malicious potential of dual-use technology. I have described the orbital principles and set the presumptions of space warfare and the principles for space warfare strategy, introduced dual-use technology and its connections to space weapons, elaborated on existing counterspace capabilities and its impact, described the challenges for space warfare and evaluated the utilization of dual-use technology as space weapons. I have reached the conclusion that current space technology does not allow to lead extensive space warfare. However, counterspace technology is mature enough for the conduct of destructive space operations and states are encouraged to proliferate advanced offensive counterspace capabilities that are not sufficiently addressed and bounded to international law. Though, despite it seems space warfare is unlikely, the growing tensions of state space actors and rapid development of new technology that is currently mostly driven by the commercial actors may soon change the situation. Potentially destructive dual-use technology may then increase the risk and probability of space warfare. The thesis proposed several options of potentially destructive dual-technology technology that could be turned into space weapons.