

## New Requirements of the Fifth Dimension of War: Planning of Cyber Operation Capabilities

**Authors :** Mehmet Kargaci

**Abstract :** Transformation of technology and strategy has been the main factor for the evolution of war. In addition to land, maritime, air and space domains, cyberspace has become the fifth domain with emerge of internet. The current security environment has become more complex and uncertain than ever before. Moreover, warfare has evaluated from conventional to irregular, asymmetric and hybrid war. Weak actors such as terrorist organizations and non-state actors has increasingly conducted cyber-attacks against strong adversaries. Besides, states has developed cyber capabilities in order to defense critical infrastructure regarding the cyber threats. Cyber warfare will be key in future security environment. Although what to do has been placed in operational plans, how to do has lacked and ignored as to cyber defense and attack. The purpose of the article is to put forward a model for how to conduct cyber capabilities in a conventional war. First, cyber operations capabilities will be discussed. Second put forward the necessities of cyberspace environment and develop a model for how to plan an operation using cyber operation capabilities, finally the assessment of the applicability of cyber operation capabilities and offers will be presented.

**Keywords :** cyber war, cyber threats, cyber operation capabilities, operation planning

**Conference Title :** ICCSIE 2015 : International Conference on Computer Science and Information Engineering

**Conference Location :** New York, United States

**Conference Dates :** June 04-05, 2015