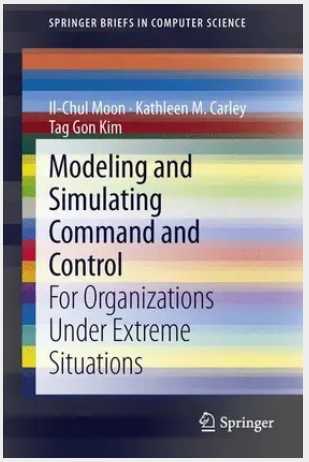
Moon / Carley / Kim

Modeling and Simulating Command and Control

For Organizations Under Extreme Situations



Commanding and controlling organizations in extreme situations is a challenging task in military, intelligence, and disaster management. Such command and control must be quick, effective, and considerate when dealing with the changing, complex, and risky conditions of the situation. To enable optimal command and control under extremes, robust structures and efficient operations are required of organizations. This work discusses how to design and conduct virtual experiments on resilient organizational structures and operational practices using modeling and simulation. The work illustrates key aspects of robustly networked organizations and modeled performance of human decision-makers through examples of naval-air defense, counterterrorism operations, and disaster responses.

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