Soldier and Small Unit Performance Analytics

P.F. Evangelista

Department of Systems Engineering,
United States Military Academy West Point,
West Point, NY, USA

Corresponding author's Email: paul.evangelista@westpoint.edu

Abstract: Soldier lethality is an Army modernization priority, however the Army lacks adequate methods to measure Soldier and small unit lethality. An inability to measure Soldier and small unit performance results in an inability to identify capability gaps and an inability to measure the impact of modernization efforts. Program Executive Office (PEO) Soldier has aggressively pursued the development of a squad performance model and squad lethality rating with the goal of improving small unit lethality, supporting acquisition decisions with data-driven analytics, and providing senior Army leaders with objective analysis related to squad lethality. In support of PEO Soldier, the Department of Systems Engineering at West Point has pursued several studies directly in support of improving Soldier and small unit performance analytics. These studies include sensor development, modeling and simulation of Soldiers and small units, and data analysis from small unit exercises and experiments. This briefing synthesizes these results and provides recommendations for the types of data and analytics that have the potential to measure the performance of Soldiers and small units.