

Suppression Analysis
For Advance Simulation of Soldier Behavior under Small Arms Fire

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ABSTRACT:

The main purpose behind suppression analysis is to better simulate the effect suppression has on the outcome of fire fights in current simulation programs. Suppression is defined as the ability to interrupt, impede, or suspend enemy operations. It is clear that suppression plays a leading role in operational outcomes; however, current simulations fail to accurately incorporate effects of suppression. Earlier efforts included simple probabilities which would dictate how likely a soldier is going to be suppressed. Current efforts include a more extensive look at the different “zones” in which a soldier is likely to be suppressed in accordance to different types of munitions.

Although the current IWARS program does attempt to take into account the effect of suppression, the behavioral patterns that the simulation projects are limited in scope. I am currently involved in outlining the frameworks for a model that will attempt to simulate the thought patterns and the behavior of a soldier under fire to accurately represent the role of suppression in combat.

Hopefully, the framework outlined in this project will lay the ground works for a more accurate simulation of soldier behavior in combat situations.

KEYWORDS: suppression, combat simulation, IWARS,

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