



Operations Research Seminar

Mathematical Modeling of the Battlespace for IED Analysis

LTC Darryl Ahner

TRADOC Analysis Center, Monterey

A modeling methodology is presented to develop models for differing areas and times. These models allow analysis on factors of interest to commanders and can inform commanders on ongoing operations. Variables are developed over an irregular lattice and conditional probability models are developed using binomial logistic regression. Several areas are considered; models for these areas and IED analysis results will be presented.

Biography: LTC Darryl Ahner is a senior analyst at the TRADOC Analysis Center – Monterey transitioning this summer to the Department of Mathematical Sciences at West Point. He received a PhD from Boston University in Systems Engineering in 2005. His research interests include dynamic programming, optimization, and model predictive control for complex systems. For the last year he has been working with JIEDDO on gaining analytical insights into the Iraqi operational environment and how it affects IEDs.

Date: Tuesday, May 27, 2008

Time: 15:00-16:00

Location: STBL

Note: This presentation is classified at the secret level.