

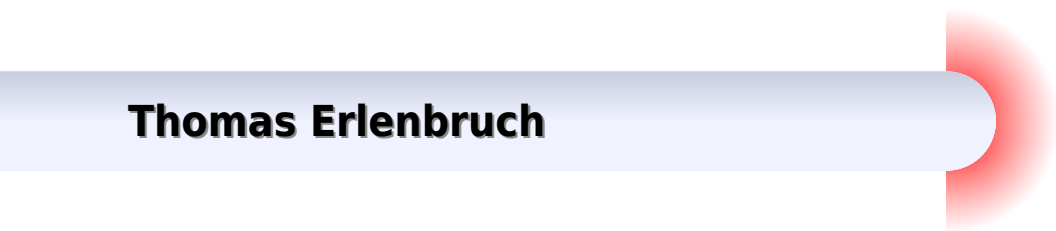
Germany

Agent-Based Simulation of German Peacekeeping Operations for Units Up to Platoon Level



Agent Based Simulation Of Peacekeeping Operations For Units Up To Platoon Level

Thomas Erlenbruch



Agent Based Simulation Of Peacekeeping Operations For Units Up To Platoon Level:

Agent-Based Simulation of German Peacekeeping Operations for Units Up to Platoon Level Thomas Erlenbruch, 2002-03-01 A significant challenge to the German Military Forces or Bundeswehr today is the development of tactics that will enable soldiers airmen and sailors to be successful in small scale peacekeeping operations This thesis develops an agent based simulation for modeling peacekeeping operations at the platoon level The simulation methodology combines agent based modeling with discrete event simulation in two software packages called Peacekeeping and TryShoot These software packages are used to model one part of a map exercise the Kurzlage PIZREN The platoon of peacekeeping soldiers utilizes different kinds of tactics against different kinds of approaches by the civilians to reach their goal This simulation yields insight into the modeled scenario and demonstrates the usefulness of agent based simulation for the exploration of tactical concepts in a peacekeeping operation

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Proceedings of the ... Winter Simulation Conference, 2002

Infantry, 1996

Proceedings of the Twenty-Third Annual Conference of the Cognitive Science Society Johanna D. Moore, Keith Stenning, 2001 Vol includes all papers and posters presented at 2001 Cog Sci Mtg summaries of symposia invited addresses Deals w issues of repres model g cog processes Appeals to scholars in subdisciplines that comprise Cog Sci Psych Computr Sci Neuro Lin

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such legislation is still a long way off The Handbook of Operator Fatigue provides a comprehensive account of the subject to serve as the definitive reference work for researchers students and practitioners alike The volume features 30 chapters written by experts from around the world to address each important facet of fatigue including the scale of the fatigue problem Section I the nature of fatigue Section II how to assess fatigue Section III the impact of fatigue on health Section IV fatigue in the workplace Section V the neurological basis of fatigue VI sleep disorders VII and the design of countermeasures to fatigue VIII

Armor ,1997 The magazine of mobile warfare Government Reports Announcements & Index ,1994-04

United States Naval Institute Proceedings ,2000 *Exploration of Force Transitions in Stability Operations Using Multi-agent Simulation* ,2006

Stability Operations have become the most prevalent mission for U S forces in the current global security environment This research explores new methods to assist in determining when it is acceptable to downsize a force in a stability operation The methodology developed provides insight into this problem by quantifying force protection risk mission failure risk and time in the context of the operational threat environment The Pythagoras Multi Agent Simulation and Data Farming techniques are used to investigate force level comparison in a theoretical threat continuum based on a peacekeeping scenario similar to the Bosnian operation The data from the simulation is to construct simple tools for decision makers These tools are used collectively to find the balance according to a commander s priorities between the conflicting issues of force protection mission success and time Two areas are identified as significant in achieving success in stability operations They are troop posturing and troop employment The problem is that they are often overlooked or under emphasized The result of this research demonstrates that posturing and employment should be considered as factors equal to force size in contributing to the goal of maximizing force presence In addition this research provides a vehicle to assist military planners with ways in which a stability force can maximize and maintain near continuous presence while simultaneously minimizing the risk to the force and adhere to operational timelines Overall the important conclusion in the significance of troop posture on force size transitions As a force is downsized it is crucial to evaluate how to maintain presence with the smaller force This is evident by the surprising success achieved by the smallest force in the simulation It was able to project a greater presence by utilizing small dispersed units much like the Combined Action Platoons in Vietnam

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