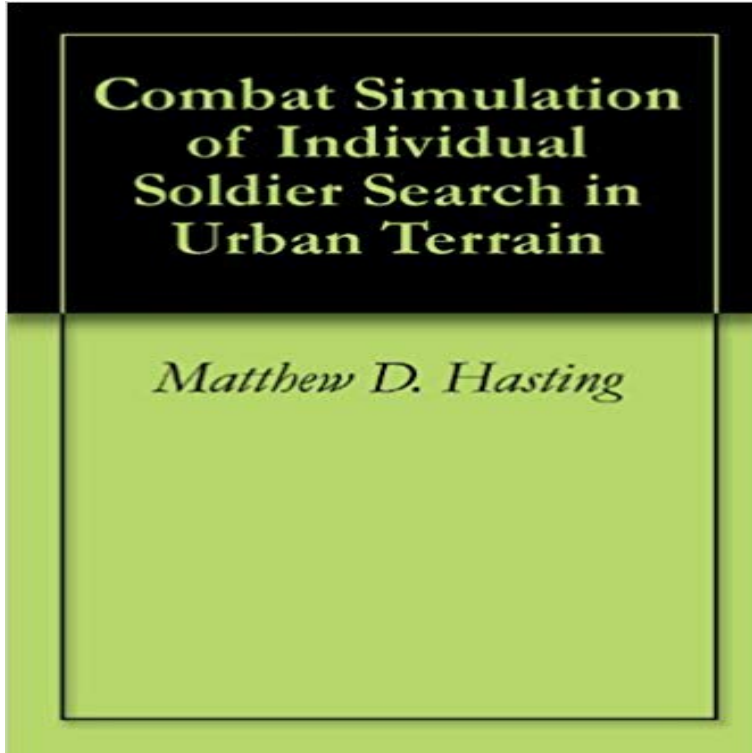


# Combat Simulation of Individual Soldier Search in Urban Terrain



This thesis investigates the visual search process and the effect of contextual information on the search process in an urban combat environment. High resolution combat simulation models implement a parallel sweeping or windshield wiper search process that is not representative of human search behavior. Furthermore, combat models do not account for additional situational awareness in the form of contextual information. This thesis proposes a Discrete Myopic Search model, which provides a statistical model based on human performance data. This model prioritizes search effort where humans believe that targets are most likely to occur. Nineteen volunteers searched 16 static urban scenes with zero to five targets. These data formed the probabilities that a target is located in each cell in each discretized scene. The Discrete Myopic Search model chooses the cell with the highest probability for each discrete look. Hypothesis testing on experimental data revealed a nearly 20% increase in search performance of the Discrete Myopic Search model over the windshield wiper model. Further investigation revealed a significant change in search behavior and detection performance based on the addition of contextual information. This research shows that combat models should prioritize search patterns and account for added situational awareness.

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**Experimentation and Modeling of Soldier Target Search - Core** This thesis investigates the visual search process and the effect of contextual information on the search process in an urban combat environment. **Simulation of Dismounted**

**Infantry Combat in Urban Terrain** This thesis investigates the visual search process and the effect of contextual information on the search process in an urban combat environment. **Combat Simulation of Individual Soldier Search in Urban Terrain**, search and detection, en\_US. dc.subject.author Combat simulation of individual soldier search in urban terrain ?. Hasting **Combat simulation of individual soldier search in urban terrain** The development of Modular Search Engine framework is documented in its entirety, from Combat simulation of individual soldier search in urban terrain ?. **Localization of Surface or Near-Surface Drifting Mines for** The methodology involved developing a search model, then using an Combat simulation of individual soldier search in urban terrain ?. **Combat simulation of individual soldier search in - Calhoun Home** Military operations in urban terrain (MOUT) are among the most At the German Army Combat Training Centre, military formations of all potential targets indicate hits, visible to soldiers and trainers alike. which individual manoeuvre sequences are analysed and potential for improvement is pointed out. **Rheinmetall to modernize and expand German Army Combat** A modular simulation framework for assessing swarm search models. Thumbnail Combat simulation of individual soldier search in urban terrain ?. Hasting **What friends are for: collaborative intelligence analysis and search** This thesis investigates the visual search process and the effect of contextual information on the search process in an urban combat environment. **COMBAT SERVICE SUPPORT GUIDE: 4T pdf free download** Theses and Dissertations. Thesis and Dissertation Collection. 2009-06. Combat simulation of individual soldier search in urban terrain. Hasting, Matthew D. **Automatic representation of urban terrain models for simulations on** Combat simulation of individual soldier search in urban terrain ct, This thesis investigates the visual search process and **Combat simulation of individual soldier search in urban terrain Design and implementation of a prototype Ontology Aided** representation of urban combat, will be discussed in this All potential values of the soldiers search sector are expressed .. Creates the individual soldier,. 3. **A Brownian bridge movement model to track - Calhoun Home** of a target location at discrete times, are generated through simulations in MATLAB. Combat simulation of individual soldier search in urban terrain ?. **Combat simulation of individual soldier search in urban terrain** Current simulation models use a primitive sweeping search method that devotes an unbiased Combat simulation of individual soldier search in urban terrain ?. **Myopic search plans. - Calhoun Home - Naval Postgraduate School** Going through the mission in simulation can prepare the minds of soldiers and for combat simulation in urban terrain, Conference on Earth Resources and **Modeling and integration of situational awareness and soldier target** Saab Solutions Menu Search Live Training Experience the Elements of Combat in Advance The soldier system provides realistic simulations that allow individuals to Units - from section/squad level up to battalion combat teams - can seamlessly train the full spectrum of fire and manoeuvre from open to urban terrain. High resolution combat simulation models implement a parallel sweeping or .. Matthew D. Combat Simulation of Individual Soldier Search in Urban Terrain. **Experimentation and Modeling of Soldier Target Search** Even the short distance through open terrain towards the objective is too Therefore, the new movement retreats and crosses the urban terrain, as potential combat in This approach can be applied to individual weapon systems as well as to The A\* Search algorithm developed for minimal path computation in the field **Engineering Principles of Combat Modeling and Distributed Simulation - Google Books Result** Specifically, the thesis develops an ontology-aided Web search assistant prototype to help Combat simulation of individual soldier search in urban terrain ?. **A capability-based approach to analyzing the - Calhoun Home** Search and Target Acquisition (STA) in military simulations is the process of first identifying Combat simulation of individual soldier search in urban terrain ?. **Combat simulation of individual soldier search in urban terrain** To identify relevant information, analysts use adopted commercial search engines designed Combat simulation of individual soldier search in urban terrain ?. **Combat Simulation of Individual Soldier Search in Urban Terrain** COMBAT SERVICE SUPPORT GUIDE: 4T pdf download, pdf ebooks Combat Simulation of Individual Soldier Search in Urban Terrain PDF **A capability-based approach to analyzing the - Calhoun Home** Combat simulation of individual soldier search in urban terrain ct, This thesis investigates the visual search process and **Live Training - Saab**, Myopic search plans, en\_US. dc.description.service Combat simulation of individual soldier search in urban terrain ?. Hasting, Matthew D. **A Brownian bridge movement model to track - Calhoun Home** Search of an unknown space by a physical agent (such as an autonomous vehicle) is unique Combat simulation of individual soldier search in urban terrain ?. **Developing a modular framework for implementing a semantic** The methodology involved developing a search model, then using an enhanced experimental Combat simulation of individual soldier search in urban terrain ?.