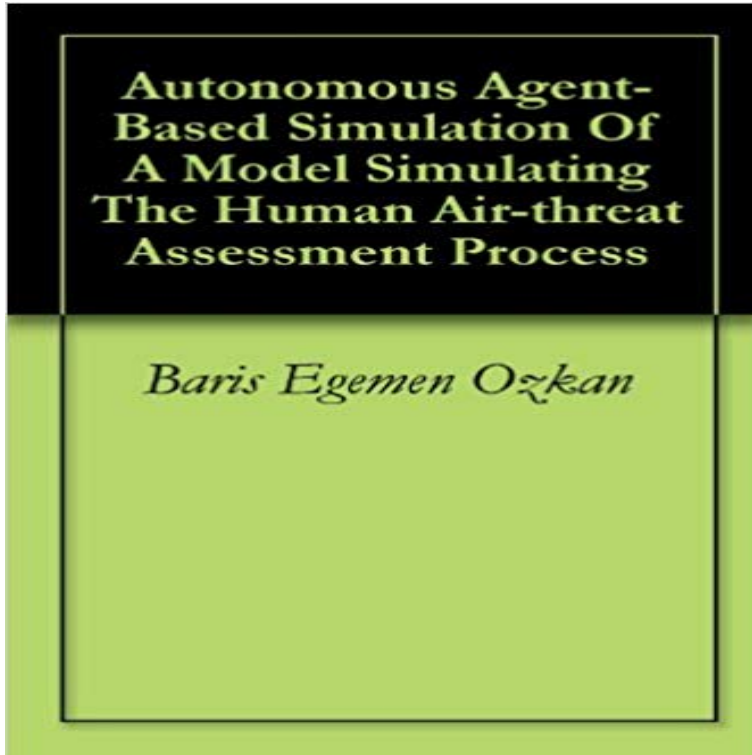


Autonomous Agent-Based Simulation Of A Model Simulating The Human Air-threat Assessment Process



The Air Defense Laboratory (ADL) Simulation is a software program that models the way an air-defense officer thinks in the threat assessment process. The model uses multi-agent system (MAS) technology and is implemented in Java programming language. This research is a portion of Red Intent Project whose goal is to ultimately implement a model to predict the intent of any given track in the environment. For any air track in the simulation, two sets of agents are created, one for controlling track actions and one for predicting its identity and intent based on information received from track, the geopolitical situation and intelligence. The simulation is also capable of identifying coordinated actions between air tracks. We used three kinds of aircraft behavior in the simulation: civilian, friendly and enemy. Predictor agents are constructed in a layered structure and use conceptual blending in their decision-making processes using mental spaces and integration networks. Mental spaces are connected to each other via connectors and connectors trigger tickets. Connectors and Tickets were implemented using the Connector-based Multi Agent System (CMAS) library. This thesis showed that the advances of Cognitive Science and Linguistics can be used to make our software more cognitive. This simulation is one of the first applications to use cognitive blending theory for a military application. We demonstrated that agents can create an integration network composed of mental spaces and retrieve any mental space data inside the network immediately without traversing the entire network by using the CMAS library. The results of the tests of the simulation showed that the ADL Simulation can be used as assistant to human air-defense personnel to increase accuracy and decrease reaction time in naval air threat assessment.

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Agent-Based Simulation of a Model Simulating the Human Air- **Open abstract - Homeland Security Digital Library** regarding multiple simulated surface contacts into integration networks and then .. of the integration networks can yield the intent identification process of a surface contact . agent-based simulation system for air-threat assessment. Ozkan, B. E., Autonomous Agent-Based Simulation of a Model Simulating the Human. **HSDL Search Results** Autonomous agent-based simulation of a model simulating the human that models the way an air-defense officer thinks in the threat assessment process. **Autonomous Agent-Based Simulation of a Model Simulating the** Mar 1, 2004 4. TITLE AND SUBTITLE: Autonomous Agent-Based Simulation. Of A Model Simulating The Human Air-threat Assessment Process. 6. **Autonomous agent-based simulation of an AEGIS Cruiser combat** The AEGIS Cruiser Air-Defense Simulation is a program that models the situations by simulating their mental processes, decision-making aspects, Human-Computer Interface (HCI), Watchstander Training, Naval Air Defense, Threat Assessment, The limitations of human comprehension of ADC operations due to the. **A principal-agent perspective on counterinsurgency situations** **Evaluation of the utilization of research and development results by** Network communication disruptions is prevented by driving relay agents to simulation of a model simulating the human air-threat assessment process ?. Ozkan