

**Abstract ID:** 11106

**Title:** Improving Virtual / Constructive Training and Experimentation with Human Adjudication

**Subcommittee:** Policy, Standards, Management, and Acquisition

**Abstract Text:** During constructive and virtual training and experimentation, circumstances exist when human intervention is required to override the outcomes of the computer simulation or to change the state of the simulation. Some examples of human intervention include adjudication of engagements that had unreasonable outcomes, changing supply levels, and moving units or individual entities within the battlespace. Overriding the simulation results during event execution should not be a spontaneous decision. If done randomly or without established, well briefed procedures, the training audience or experiment participants will lose confidence in the validity of the computer model. During event execution, the results of the human intervention can cause confusion on the part of participants, give unfair advantages (perceived or actual) to one side or another and corrupt data which is being collected. Additionally, these interventions must be performed in a timely manner to have their desired effect. For these reasons, management must implement well reasoned adjudication procedures. For the 2011 Joint Forcible Entry Warfighter Experiment (which included US Army, Navy, Marine, and Air Force forces operating in a distributed, constructive simulation over two weeks), the Experimentation Environments Branch of the Army's Maneuver Battle Lab developed a set of procedures to provide guidance as to when simulation outcomes will be changed or when human intervention into the simulation is appropriate. This paper will provide analysis from the execution of the experiment of how these procedures impacted experiment objectives and post experiment data analysis. Discussion will include how data collected from the HLA logger and Damage Effects server was used to make intervention decisions and reasons for human override of the simulations. The paper will close with lessons learned during this event that can be applied by others in the training and experimentation community of practice.

**Will this paper have one or more authors from outside the U.S.?** No

**Discussion Points:**

1. adjudication procedures
2. Joint Experimentation
3. virtual constructive simulations

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**Biography:**

Tom Yanoschik serves as the SAIC Site Manager for the Experimentation Environments Branch of the Maneuver Battle Lab (MBL), Fort Benning, Georgia. He has participated in virtual and constructive experimentation both locally at the MBL as well as distributed through the Battle Lab Simulation Collaborative Environment (BLSCE). He is retired from the United States Army where he served as a Field Artillery officer. His assignments included service in cannon artillery units, multiple launched rocket system units, and as a fire support officer in the 3rd Ranger Battalion. He is a graduate of the United States Military Academy and holds a Masters Degree from the University of Texas at Austin.

**Status:** APPROVED

### IITSEC ABSTRACT SCORING FORM

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**Title:** Improving Virtual / Constructive Training and Experimentation with Human Adjudication

**Primary Author:** Yanoschik

**Committee:** Policy, Standards, Management, and Acquisition

Policy, Standards, Management, and Acquisition: Non-technical policy and management issues related to the acquisition and implementation of education and training, training systems, courseware and training enablers.

This subcommittee is seeking papers related to issues of Policy, Standards, Management, & Acquisition.

**POLICY:** Government or commercial directives regarding the methodologies, processes, and/or procedures implemented while acquiring training systems or executing current training programs.

**STANDARDS:** Issues and topics related to the requirements for standards development to support the training, simulation, and education community.

**MANAGEMENT:** Issues directly related to the administration of programs and acquisitions, including challenges, successes, risks, finances and the impact of these on the training system and/or the trainees.

**ACQUISITION:** Topics related to the acquisition of training systems; services, facilities, and courseware; and the success with which these training efforts meet their designed goals.

#### Evaluation

Substance. The controlling idea and the support for it. The total concept the author wants to present. A good idea can survive mechanical flaws, but perfect spelling and grammar can't save poor ideas.

Originality. A new concept that furthers the evolution of the committee's subject area. A repeat of past theories that add nothing to the community of knowledge are generally unacceptable, unless the prospective abstract/paper promises to impart knowledge that may be of substantive value to a novice audience.

#### Acceptance

Accept     Reject     Discuss     Sales Pitch     Similar Abstract   
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#### Key Words or Concepts

#### Other Comments/Remarks