Call for Papers

Journal of Defense Modeling and Simulation: Applications, Methodology, Technology (JDMS)

Special Issue: Discovering the landscape of applied theories to understand adversarial action

Guest Editors
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Introduction

The JDMS intends to publish a special edition that focuses on applications of computational social science modeling and simulation related to adversary decision making. This is a call for papers that describe existing computational models or related theoretical/conceptual works in progress which can contribute to a better understanding of human behavior and decision making related to the mission of the Department of Homeland Security.

Behavioral and social scientists have long sought to understand human decision making. In the military context, understanding the factors that affect an opponent’s decision making has always been beneficial. Related research has employed methods that have included simulation and games to develop or test theories which might explain actions or decisions made under various conditions. Over the past several years there has been growing interest in the use of computational models within the social and biological science. System Dynamics also employs a valuable approach by seeking insight with an inward focus, an advantageous methodology to understand opponents intrinsically motivated towards covert operations.

Computational or theoretical models which attempt to capture and better understand the dynamic complexities of adversary decision making may, among other things, address:

- Tradeoffs between alternative actions varying ease of execution vs personal and/or mission risk.
- Selection of strategy, tactics, techniques, or procedures to achieve an objective.
- Effects of culture, ideology, and training on decision-making processes.
- How group dynamics influence decision making in the context of cultural and ideological influences.
- Behavioral, psychological, or sociological factors that influence preference changes over time between initial decisions and execution of chosen alternative actions.

Potential contributions can include, but are not limited to:

- Case studies of existing M&S test-beds that have been used to support rapid prototyping for adversary modeling and understanding.
- The psychological/behavioral Science of preferences and its application to M&S.
- Use of M&S to evaluate human factors approaches that can be used in the development of models to understand adversarial action and associated dynamics (Adversary Dynamics Modeling or ADM).
- Combined discrete/continuous model-based approaches for ADM development and analysis.
- Use of M&S frameworks to provide lifecycle modeling of ADM.
- Visualization or other human interaction with adversary-related data (real and/or simulated).
- Case studies of value added or capability leap achieved with enhanced understanding of adversarial activity and associated dynamics.

Papers submitted should not be concurrently under review at another conference, journal, or similar venue.

**Instructions for Manuscript Preparation**

For manuscript formatting and other guidelines, please visit the [Author Guidelines for JDMS](#).

Note: Manuscripts must not have been previously published or be submitted for publication elsewhere. Each submitted manuscript must include title, names, authors' affiliations, postal and e-mail addresses, and a list of keywords. For multiple author submission, please identify the corresponding author.

**Due Dates**

Submission of papers               July 31, 2017
Expected date of publication      Winter 2018

**Submissions for full paper review**

All manuscripts must be submitted electronically through the paper submission system to the [JDMS Manuscript Submission System](#). In the title page, author(s) must specifically mark that the paper is intended for this special issue as follows: "Submission for the Special Issue of JDMS: Framework for the Analysis of Cost and Technology. Please follow the guidelines for submission on the Manuscript Central site.

**Final paper submissions**

Each final submission must be prepared based on the JDMS journal requirements (see the [Author Guidelines for JDMS](#) page).

**Guest Editors:**

May want to include the folks who will be contribute to the special issue
For questions contact:

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