OVERVIEW:
The Department of Defense Analysis is an interdisciplinary program, drawing on a wide range of academic specialties. The program provides a focused course of instruction on the dynamics of asymmetric warfare, sub-state conflict, terrorism, information operations, and other “high leverage” operations in U.S. defense and foreign policy. The core program also provides every student with a strong background in strategic analysis, international relations and comparative politics, organization theory, and formal analytical methods.

CURRICULUM SERVED:
- Special Operations

DEGREE GRANTED:
- Master of Science in Defense Analysis

RESEARCH THRUSTS:
- Special Operations
- Asymmetric Warfare
- Sub-State Conflict
- Terrorism
- Information Operations
- Defense and Foreign Policy

RESEARCH CENTERS:
- Center on Terrorism and Irregular Warfare

SPONSORED PROGRAM (Research and Academic)-FY2004:
The Naval Postgraduate School’s sponsored program exceeded $92 million in FY2004. Sponsored programs include both research and educational activities funded from an external source. A profile of the sponsored program of the Department of Defense Analysis is provided below:
<table>
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ASSESSING THE COMPUTER NETWORK OPERATIONS (CNO) THREAT OF FOREIGN COUNTRY
Dorothy E. Denning, Professor
Department of Defense Analysis
Sponsor: National Security Agency

SUMMARY: Assessed foreign countries' computer network operations (CNO) capabilities using open sources, including those available through the Internet. A methodology for doing this was developed and applied to Iran and North Korea.

KEYWORDS: Iran, North Korea, Computer Network Operations

CONFLICT, TERRORISM AND CYBERSPACE
Dorothy E. Denning, Professor
Department of Defense Analysis
Sponsor: Naval Postgraduate School

OBJECTIVES: To identify more effective ways in which the U.S. government can use cyberspace information operations to counter terrorism and other threats.

KEYWORDS: Cyberspace Information Operations, Terrorism

THE DYNAMICS OF INSURGENCY
Frank R. Giordano, Professor
Department of Defense Analysis
Sponsor: Naval Postgraduate School

OBJECTIVES: To examine the analytical foundations of insurgent lifecycles.

KEYWORDS: Insurgency Dynamics

INTELLIGENCE PREPARATION OF THE BATTLEFIELD FOR SELECTED SPECIAL OPERATIONS
Gordon H. McCormick, Professor
Department of Defense Analysis
Sponsor: SAF/FMBMB

OBJECTIVES: To develop a model and associated methodology of man hunting.

KEYWORDS: Special Operations, Man Hunting

OPERATION AND INTELLIGENCE FUSION IN SUPPORT OF PARAMILITARY OPERATION
Gordon H. McCormick, Professor
Department of Defense Analysis
Sponsor: Office of the Assistant Secretary of Defense

SUMMARY: Provided information from cases studied for use in determining the Department of Defense’s response to the 9/11 Commission recommendations on paramilitary operations.

KEYWORDS: 9/11, Paramilitary Operations
THE STRATEGIC UTILITY OF SPECIAL OPERATIONS FORCES-LESSONS FROM AFGHANISTAN
Hy S. Rothstein, Senior Lecturer
Department of Defense Analysis
Sponsor: Office of the Assistant Secretary of Defense

SUMMARY: Examined the instructional and organizational realities that impacted the planning and execution of the war in Afghanistan.

DESIGNING THE COALITION PROVISIONAL AUTHORITY (CPA) COUNTERINSURGENCY INTELLIGENCE ORGANIZATION
Kalev I. Sepp, Assistant Professor
Department of Defense Analysis
Sponsor: U.S. Central Command

SUMMARY: Prepared a report delineating recommendations of methods to improve U.S., coalition and Iraqi intelligence organization and intelligence gathering in Iraq. This report specifically addressed possible options for fusion of U.S. military and government agency intelligence operations and analysis. It also considered how the existing and recommended intelligence structures should evolve as the Coalition Provisional Authority (CPA) transforms and the Iraq transitional National Assembly assumes sovereignty in June 2004.

Kalev I. Sepp, Assistant Professor
Department of Defense Analysis
Sponsor: Naval Postgraduate School

SUMMARY: Described the evolution of U.S. joint military strategy in Central America during the twelve-year period from 1979-1991. This campaign was an operational and strategic success that bears viable lessons for application in other theaters, faced with similar challenges and constraints, now and in the future. The research also supported the development and enhancement of courses in the general areas of strategy formulation, joint campaign planning, counterinsurgency and integration of special operations forces in theater.

CASE STUDIES FOR THE FUTURE
David C. Tucker, Associate Professor
Hy S. Rothstein, Senior Lecturer
Department of Defense Analysis
Sponsor: Joint Special Operations Command

OBJECTIVES: To assist in the development of operational concepts for special operations forces that can be rested in exercises.

SOFTWARE TO SUPPORT ONLINE LEARNING: VIRTUAL CHARACTERS FOR SCENARIO-BASED SIMULATIONS
David C. Tucker, Associate Professor
Department of Defense Analysis
Sponsor: Department of Homeland Security
SOFTWARE TO SUPPORT ONLINE LEARNING: VIRTUAL CHARACTERS FOR SCENARIO-BASED SIMULATIONS
David C. Tucker, Associate Professor
Department of Defense Analysis
Sponsor: U.S. Department of Justice

SUMMARY: Online education is critical to the success of any educational program in homeland security, since the key audience for this education is employed full-time and can only undertake education if a significant portion of it is done online. Experience shows, however, that keeping students engaged with online education is difficult and a serious obstacle to the success of these programs.

The purpose of this research was two-fold. First, a virtual character for students to interact with during a homeland security (HLS) online course was produced. The purpose of using the character was to make time online interesting enough so that students will be motivated to do the coursework and challenging enough so that it will increase their mastery of the subject matter. Second, a report was produced that compares the students' online experience during this HLS course with other comparable online courses that do not use a virtual character to see if the virtual character helped motivate students to do their online work and master the course material. Assessment data included student evaluations and data gathered by the software that runs the virtual character and the online environment. The report also included suggestions for improving the online virtual character and its use in the students' educational experience, as well as suggestions for additional uses for virtual characters in the homeland security program (e.g., specialized training, simulations and exercises).
DEPARTMENT OF DEFENSE ANALYSIS

2004
Faculty Publications and Presentations
PUBLICATIONS


PRESENTATIONS


CONTRIBUTIONS TO BOOKS


REPORTS


OTHER

Arquilla, J., “Rethinking Support for High-Level Decision Making,” RAND, PM-1621-DARPA.

