

INTERNATIONAL JOURNAL OF OPERATIONS RESEARCH AND INFORMATION SYSTEMS

July-September 2013, Vol. 4, No. 3

Table of Contents

SPECIAL ISSUE: MODELING AND OPERATIONS RESEARCH IN DEFENSE ANALYSIS

Guest Editorial Preface

- v William P. Fox, *Department of Defense Analysis, Naval Postgraduate School, Monterey, CA, USA*

RESEARCH ARTICLES

- 1 **Modeling and Methodology for Incorporating Existing Technologies to Produce Higher Probabilities of Detecting Suicide Bombers**
William P. Fox, *Department of Defense Analysis, Naval Postgraduate School, Monterey, CA, USA*
John Binstock, *Department of Information Systems (C4I), Naval Postgraduate School, Monterey, CA, USA*
Mike Minutas, *Department of Information Systems (C4I), Naval Postgraduate School, Monterey, CA, USA*
- 19 **Docking Two Models of Insurgency Growth**
Michael Jaye, *Department of Defense Analysis, Naval Postgraduate School, Monterey, CA, USA*
Robert Burks, *Operations Research Department, Naval Postgraduate School, Monterey, CA, USA*
- 31 **Modeling the Complexity of the Terrorism/Counter-Terrorism Struggle: Mathematics of the "Hearts and Minds"**
Chris Arney, *Department of Mathematics, United States Military Academy, West Point, NY, USA*
Zachary Silvis, *United States Military Academy, West Point, NY, USA*
Matthew Thielen, *United States Military Academy, West Point, NY, USA*
Jeff Yao, *United States Military Academy, West Point, NY, USA*
- 47 **Performing Counter-High Energy Laser Evasive Tactics**
Donald P. Gaver, *Operations Research Department, Naval Postgraduate School, Monterey, CA, USA*
Patricia A. Jacobs, *Operations Research Department, Naval Postgraduate School, Monterey, CA, USA*
- 61 **Behavior Selection Using Utility-Based Reinforcement Learning in Irregular Warfare Simulation Models**
Sotiris Papadopoulos, *MOVES Institute, Naval Postgraduate School, Monterey, CA, USA*
Francisco Baez, *MOVES Institute, Naval Postgraduate School, Monterey, CA, USA & U.S. Army TRADOC Analysis Center, Monterey, CA, USA*
Jonathan Alt, *U.S. Army TRADOC Analysis Center, Monterey, CA, USA & MOVES Institute, Naval Postgraduate School, Monterey, CA, USA*
Christian Darken, *MOVES Institute, Naval Postgraduate School, Monterey, CA, USA*

Copyright

The *International Journal of Operations Research and Information Systems* (ISSN 1947-9328; eISSN 1947-9336). Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Operations Research and Information Systems* is currently listed or indexed in: Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; IAOR Online; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory