GUEST EDITORIAL PREFACE

Special Issue:
Modeling and Operations Research in Defense Analysis

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

In November 2010 we hosted two sessions in Modeling and Operations Research in Defense Analysis at the *INFORMS* conference in Austin, Texas. Five of our presenter's papers are presented in this special issue. These articles deal with operations research and mathematical modeling for decision making issues in the government and the military.

Applications to Defense Analysis falls under the Military Application Society (MAS) of *INFORMS*. The Military Applications Society (MAS) is a technical society within the Institute for Operations Research and the Management Sciences (INFORMS). MAS welcomes members from around the globe who share a common interest in its goals.

The goals of MAS are to:

- advance research in global defense-related topics, including military operations, governmental operations and security, and nation support;
- foster high standards in the practice of military operations research;
- promote the global exchange of information and ideas amongst developers and users of military operations research tools and techniques; and,
- help develop students and practitioners of military operations research to be capable of addressing the complex challenges of the 21st century.

MAS does this through a program of meetings, awards, publications and other activities independently and in concert with sister societies such MORS.

In this special edition we present models and analysis that deal with a wide variety of subjects from defense analysis.

William P. Fox
Guest Editor
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William Fox is a Professor in the Defense Analysis Department of the Naval Postgraduate School (NPS) with a background in operations research and applied mathematics. Prior to joining NPS, Dr. Fox was chair of mathematics department at Francis Marion University for eight years and for twelve years was an academy professor in the mathematical sciences department at the United States Military Academy. He holds a PhD from Clemson University in Industrial Engineering, a MS in Operations Research from the Naval Postgraduate School, and a bachelor's degree from the United States Military Academy. Professor Fox has significant experience building mathematical models. He has conducted research on many various forms of mathematical models supporting defense operations and has published a number of papers and books on the topic of mathematical modeling. Professor Fox is President of the Military Application Society (MAS) of INFORMS. He is a contributing editor to the Consortium Journal *and he is on the editorial review board of the* International Journal of Operations Research and Information Systems, *the* International Journal of Business Analytics*, the* International Journal of Data Science*, and the* Journal of Mathematics and Systems Science*, and served as a guest editor for this special issue.*