Table of Contents

SPECIAL ISSUE ON CYBERSECURITY VALIDATION

GUEST EDITORIAL PREFACE

1 Principles and Measurement Models for Software Assurance
   Nancy R. Mead, CERT, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, USA
   Dan Shoemaker, Department of Computer and Information Systems, College of Liberal Arts &
   Education, University of Detroit Mercy, Detroit, MI, USA
   Carol Woody, CERT, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, USA

11 Towards a More Systematic Approach to Secure Systems Design and Analysis
   Simon Miller, Intelligent Modelling and Analysis Research Group, School of Computer Science,
   University of Nottingham, Nottingham, UK
   Susan Appleby, Communications-Electronics Security Group, Cheltenham, Gloucestershire, UK
   Jonathan M. Garibaldi, Intelligent Modelling and Analysis Research Group, School of Computer Science,
   University of Nottingham, Nottingham, UK
   Uwe Aickelin, Intelligent Modelling and Analysis Research Group, School of Computer Science,
   University of Nottingham, Nottingham, UK

31 A New Method for Writing Assurance Cases
   Yutaka Matsuno, Strategy Office, Information and Communications Headquarters, Nagoya University,
   Furo-Chō, Chikusa-ku, Nagoya, Japan
   Shuichiro Yamamoto, Strategy Office, Information and Communications Headquarters, Nagoya University,
   Furo-Chō, Chikusa-ku, Nagoya, Japan

50 Analyzing Human Factors for an Effective Information Security Management System
   Reza Alavi, School of Architecture, Computing and Engineering, University of East London,
   London, UK
   Shareeful Islam, School of Architecture, Computing and Engineering, University of East London,
   London, UK
   Hamid Jahankhani, School of Architecture, Computing and Engineering, University of East London,
   London, London, UK
   Ameer Al-Nemrat, School of Architecture, Computing and Engineering, University of East
   London, London, UK

75 Advancing Cyber Resilience Analysis with Performance-Based Metrics from
   Infrastructure Assessments
   Eric D. Vugrin, Sandia National Laboratories, Albuquerque, NM, USA
   Jennifer Turgeon, Sandia National Laboratories, Albuquerque, NM, USA

Copyright
The International Journal of Secure Software Engineering (ISSN 1947-3036; eISSN 1947-3044). 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.