

# International Journal of Secure Software Engineering

October-December 2014, Vol. 5, No. 4

## Table of Contents

### EDITORIAL PREFACE

- iv Khaled M. Khan, *Department of Computer Science and Engineering, Qatar University, Doha, Qatar*

### RESEARCH ARTICLES

- 1 **Validating Security Design Pattern Applications by Testing Design Models**  
*Takanori Kobashi, Computer Science and Engineering Department, Waseda University, Tokyo, Japan*  
*Nobukazu Yoshioka, GRACE Center, National Institute of Informatics, Tokyo, Japan*  
*Haruhiko Kaiya, Department of Information Sciences, Kanagawa University, Kanagawa-ken, Japan*  
*Hironori Washizaki, Computer Science and Engineering Department, Waseda University, Tokyo, Japan*  
*Takano Okubo, Institute of Information Security, Yokohama, Japan*  
*Yoshiaki Fukazawa, Computer Science and Engineer Department, Waseda University, Tokyo, Japan*
- 31 **A Tagging Approach to Extract Security Requirements in Non-Traditional Software Development Processes**  
*Annette Tetmeyer, Department of Electrical Engineering and Computer Science, University of Kansas, Lawrence, KS, USA*  
*Daniel Hein, Automotive OEM, Garmin International, Olathe, KS, USA*  
*Hossein Saiedian, Department of Electrical Engineering and Computer Science, University of Kansas, Lawrence, KS, USA*
- 48 **Evolution of Security Engineering Artifacts: A State of the Art Survey**  
*Michael Felderer, Institute of Computer Science, University of Innsbruck, Innsbruck, Austria*  
*Basel Katt, Institute of Computer Science, University of Innsbruck, Innsbruck, Austria*  
*Philipp Kalb, Institute of Computer Science, University of Innsbruck, Innsbruck, Austria*  
*Jan Jürjens, Department of Software Engineering, Technical University of Dortmund, Dortmund, Germany*  
*Martin Ochoa, Department of Software Engineering, Technical University of Munich, Munich, Germany*  
*Federica Paci, Department of Information Engineering and Computer Science, University of Trento, Trento, Italy*  
*Le Minh Sang Tran, Security Research Group, University of Trento, Trento, Italy*  
*Thein Than Tun, Department of Computing, The Open University, Milton Keynes, UK*  
*Koen Yskout, iMinds-DistriNet, KU Leuven, Leuven, Belgium*  
*Riccardo Scandariato, iMinds-DistriNet, KU Leuven, Leuven, Belgium*  
*Frank Piessens, iMinds-DistriNet, KU Leuven, Leuven, Belgium*  
*Dries Vanoverberghe, iMinds-DistriNet, KU Leuven, Leuven, Belgium*  
*Elizabeta Fourneter, SnT Centre, University of Luxembourg, Luxembourg*  
*Matthias Gander, Institute of Computer Science, University of Innsbruck, Innsbruck, Austria*  
*Bjørnar Solhaug, Information and Communication Technology (ICT), SINTEF, Oslo, Norway*  
*Ruth Breu, Institute of Computer Science, University of Innsbruck, Innsbruck, Austria*

### Copyright

The **International Journal of Secure Software Engineering (IJ SSE)** (ISSN 1947-3036; eISSN 1947-3044), Copyright © 2014 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 Secure Software Engineering* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory