Table of Contents

International Journal of Information Security and Privacy

Volume 11 • Issue 2 • April-June-2017 • ISSN: 1930-1650 • eISSN: 1930-1669
An official publication of the Information Resources Management Association

Special Issue on Cyber Security and Privacy in Communication Networks (Part 1)

Guest Editorial Preface

iv    C. P. Gupta, Rajasthan Technical University, Kota, India
       Nishtha Kesswani, Central University of Rajasthan, Ajmer, India

Research Articles

1    An Authentication Technique for Accessing De-Duplicated Data from Private Cloud using One Time Password
     Prakash Mohan, Karpagam College of Engineering (Autonomous), Coimbatore, India
     Saravanakumar Chelliah, St. Joseph’s Institute of Technology, Chennai, India

11   Bit Forwarding 3-Bits Technique for Efficient Modular Exponentiation
     Satyanarayana Volla, National Institute of Technology, Tiruchirappalli, India
     B. Shameedha Begum, National Institute of Technology, Tiruchirappalli, India
     Amit D. Joshi, National Institute of Technology, Tiruchirappalli, India
     N. Ramasubramaniam, National Institute of Technology, Tiruchirappalli, India

25   Digital Forensic Analysis of Cybercrimes: Best Practices and Methodologies
     Regner Sabillon, Universitat Oberta de Catalunya, Barcelona, Spain
     Jordi Serra-Ruiz, Universitat Oberta de Catalunya, Barcelona, Spain
     Victor Cavaller, Universitat Oberta de Catalunya, Barcelona, Spain
     Jeimy J. Cano, Universidad de los Andes, Bogota, Colombia

38   PKI Deployment Challenges and Recommendations for ICS Networks
     Nandan Rao, ABB Global Industries and Services Pvt Ltd., Bangalore, India
     Shubhra Srivastava, ABB Global Industries and Services Pvt Ltd., Bangalore, India
     Sreekanth K.S., ABB Global Industries and Services Pvt Ltd., Bangalore, India

49   Framework to Secure Browser Using Configuration Analysis
     Harshad Suryakant Wadkar, Defence Institute of Advanced Technology, Pune, India
     Arun Mishra, Defence Institute of Advanced Technology, Pune, India
     Arati M. Dixit, Savitribai Phule Pune University, Pune, India

COPYRIGHT

The International Journal of Information Security and Privacy (IJISP) (ISSN 1930-1650; eISSN 1930-1669), Copyright © 2017 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 Information Security and Privacy is indexed or listed in the following: ACM Digital Library; Australian Business Deans Council (ABDC); Bacon’s Media Directory; Cabell’s Directories; Compendex (Elsevier Engineering Index); CSA Illumina; DBLP; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; Norwegian Social Science Data Services (NSD); SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich’s Periodicals Directory; Web of Science Emerging Sources Citation Index (ESCI)