

# INTERNATIONAL JOURNAL OF DIGITAL CRIME AND FORENSICS

October-December 2013, Vol. 5, No. 4

## Table of Contents

### RESEARCH ARTICLES

- 1 Telephone Handset Identification by Collaborative Representations**  
*Yannis Panagakis, Department of Informatics, Aristotle University of Thessaloniki, Thessaloniki, Greece*  
*Constantine Kotropoulos, Department of Informatics, Aristotle University of Thessaloniki, Thessaloniki, Greece*
- 15 A Forensic Tool for Investigating Image Forgeries**  
*Marco Fontani, Department of Information Engineering and Mathematical Sciences, University of Siena, Siena, Italy*  
*Tiziano Bianchi, Department of Electronics and Telecommunications, Politecnico di Torino, Torino, Italy*  
*Alessia De Rosa, National Inter-University Consortium for Telecommunications, University of Florence, Firenze, Italy*  
*Alessandro Piva, Department of Information Engineering, University of Florence, Firenze, Italy*  
*Mauro Barni, Department of Information Engineering and Mathematical Sciences, University of Siena, Siena, Italy*
- 34 Multilevel Visualization Using Enhanced Social Network Analysis with Smartphone Data**  
*Panagiotis Andriotis, University of Bristol, Bristol, UK*  
*Zacharias Tzermias, Institute of Computer Science, Foundation for Research and Technology Hellas, Heraklion, Greece*  
*Anthi Mparmpaki, Institute of Computer Science, Foundation for Research and Technology Hellas, Heraklion, Greece*  
*Sotiris Ioannidis, Institute of Computer Science, Foundation for Research and Technology Hellas, Heraklion, Greece*  
*George Oikonomou, University of Bristol, Bristol, UK*
- 55 Audio Watermarking Scheme Using IMFs and HHT for Forensic Applications**  
*Saif alZahir, Department of Computer Science, University of Northern British Columbia, Prince George, Canada*  
*Md Wahedul Islam, Department of Computer Science, University of Northern British Columbia, Prince George, Canada*

### Copyright

The **International Journal of Digital Crime and Forensics (IJDCF)** (ISSN 1941-6210; eISSN 1941-6229), 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 Digital Crime and Forensics* is currently listed or indexed in: Applied Social Sciences Index & Abstracts (ASSIA); Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; 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