

Journal of Digital Forensics, **Security and Law**

Volume 9 Article 6

2014

Front Matter

Follow this and additional works at: https://commons.erau.edu/jdfsl



Part of the Computer Law Commons, and the Information Security Commons

Recommended Citation

(2014) "Front Matter," Journal of Digital Forensics, Security and Law. Vol. 9, Article 6.

DOI: https://doi.org/10.58940/1558-7223.1347

Available at: https://commons.erau.edu/jdfsl/vol9/iss3/6

This Front Matter/Back Matter is brought to you for free and open access by the Journals at Scholarly Commons. It has been accepted for inclusion in Journal of Digital Forensics, Security and Law by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu.









Volume 9, Number 3 2014



The Journal of Digital Forensics, Security and Law

Volume 9, Number 3 (2014) Editorial Board

Editor-in-Chief

Ibrahim (Abe) Baggili, PhD University of New Haven Connecticut, USA

Frank Adelstein, PhD Cayuga Networks New York, USA

John W. Bagby, JD

The Pennsylvania State University

Pennsylvania, USA

Diane Barrett, PhD, CISSP Bloomsburg University Pennsylvania, USA

David P. Biros, PhD Oklahoma State University

Oklahoma, USA

Frank Breitinger University of New Haven Connecticut, USA

Raymond Choo, PhD University of South Australia South Australia, Australia

Kam Pui (KP) Chow, PhD University of Hong Kong Hong Kong, China

Fred Cohen, PhD, CEO Management Analytics California, USA

Philip Craiger, PhD, CISSP, CCFP

Daytona State College

Florida, USA

Glenn S. Dardick, PhD, CCE, CCFP

ADFSL Virginia, USA

David Dampier, PhD Mississippi State University

Mississippi, USA

Denis Edgar-Neville, PhD

Canterbury Christ Church University

Canterbury, UK

Barbara Endicott-Popovsky, PhD University of Washington Washington, USA Nick V. Flor, PhD University of New Mexico New Mexico, USA

Simson Garfinkel, PhD Naval Postgraduate School

California, USA

Pavel Gladyshev, PhD University College Dublin

Ireland

Sanjay Goel University at Albany State University of New York New York, USA

Gregg Gunsch, PhD, PE, CISSP

Defiance College Ohio, USA

Joshua James, PhD Soonchunhyang University

South Korea

Andy Jones, PhD University of South Wales

UK

Erin Kenneally, MFS, JD

Elchemy, Inc.

University of California San Diego

California, USA

Gary C. Kessler, PhD, CCE, CCFP, CISSP Embry-Riddle Aeronautical University

Florida, USA

Jigang Liu, PhD

Metropolitan State University

Minnesota, USA

Michael M. Losavio, JD University of Louisville Kentucky, USA

Andrew Marrington, PhD

Zayed University

UAE

Martin Oliver, PhD, CCFP University of Pretoria South Africa **Associate Editor-in-Chief**

Linda K. Lau, PhD Longwood University Virginia, USA

Denise Pheils, PhD, CISSP, PMP

Texas A&M Texas, USA

Pedro Luís Próspero Sanchez, PhD

University of Sao Paulo Sao Paulo, Brazil

John Riley, PhD Bloomsburg University Pennsylvania, USA

Marcus K. Rogers, PhD, CISSP

Purdue University Indiana, USA

Vassil Roussev, PhD University of New Orleans

Louisiana, USA

Neil Rowe, PhD

U.S. Naval Postgraduate School

California, USA

Kathryn C. Seigfried-Spellar, PhD

The University of Alabama

Alabama, USA

Il-Yeol Song, PhD

ACM Distinguished Scientist

Drexel University Pennsylvania, USA

Bernd Carsten Stahl, PhD De Montfort University

Leicester, UK

Craig Valli, DIT Edith Cowan University Western Australia, Australia

Eli Weintraub, PhD, CISA

Afeka Tel Aviv Academic College of

Engineering Israel

Nigel Wilson

The University of Adelaide South Australia, Australia

Copyright © 2014 ADFSL, the Association of Digital Forensics, Security and Law. Permission to make digital or printed copies of all or any part of this journal is granted without fee for personal or classroom use only and provided that such copies are not made or distributed for profit or commercial use. All copies must be accompanied by this copyright notice and a full citation. Permission from the editor is required to make digital or printed copies of all or any part of this journal for profit or commercial use. Permission requests should be sent to Editor, JDFSL, 1642 Horsepen Hills Road, Maidens, Virginia 23102, or emailed to editor@jdfsl.org. ISSN 1558-7215

© 2014 ADFSL Page 1

Call for Papers

The *Journal of Digital Forensics*, *Security and Law* has an open call for papers in, or related to, the following subject areas:

- 1) Digital Forensics Curriculum
- 2) Cyber Law Curriculum
- 3) Information Assurance Curriculum
- 4) Digital Forensics Teaching Methods
- 5) Cyber Law Teaching Methods
- 6) Information Assurance Teaching Methods
- Digital Forensics Case Studies
- 8) Cyber Law Case Studies
- 9) Information Assurance Case Studies
- 10) Digital Forensics and Information Technology
- 11) Law and Information Technology
- 12) Information Assurance and Information Technology

Guide for Submission of Manuscripts

Manuscripts should be submitted through the *JDFSL* online system in Word format using the following link: http://www.jdfsl.org/for-authors. If the paper has been presented previously at a conference or other professional meeting, this fact, the date, and the sponsoring organization should be given in a footnote on the first page. Articles published in or under consideration for other journals should not be submitted. Enhanced versions of book chapters can be considered. Authors need to seek permission from the book publishers for such publications. Papers awaiting presentation or already presented at conferences must be significantly revised (ideally, taking advantage of feedback received at the conference) in order to receive any consideration. Funding sources should be acknowledged in the *Acknowledgements* section.

The copyright of all material published in *JDFSL* is held by the Association of Digital Forensics, Security and Law (ADFSL). The author must complete and return the copyright agreement before publication. The copyright agreement may be found at http://www.jdfsl.org/for-authors.

Additional information regarding the format of submissions may be found on the *JDFSL* Web site at http://www.jdfsl.org/for-authors.



Page 2 \bigcirc 2014 ADFSL

Contents

Call for Papers	2
Guide for Submission of Manuscripts	2
From the Editor-in-Chief	5
The Cost of Privacy: Riley V. California's Impact on Cell Phone Searches Jennifer L. Moore, Jonathan Langton, and Joseph Pochron	7
Quantifying Relevance of Mobile Digital Evidence as They Relate to Case Types: A Survey and a Guide for Best Practice	19
A Study of Forensic Imaging in the Absence of Write-Blockers	51
Book Review: The X-Ways Forensics Practitioner's Guide (Brett Shavers and Eric Zimmerman)	59
Subscription Information	63
Announcements and Job Postings	65

 \bigcirc 2014 ADFSL Page 3

Page 4 © 2014 ADFSL

FROM THE EDITOR.

Welcome to JDFSL's third issue for 2014!

In this issue we have three papers that have made the cut. The first paper titled "The Cost of Privacy: Riley v. California's Impact on Cell Phone Searches" is timely. In 2014 there was a unanimous decision that requires a warrant for all cell phone searches. This has some strong implications on the forensic analysis of mobile phones, and to that end, this article discusses and summarizes this legal precedent with its practical implications.

The second paper titled "Quantifying the Relevance of Mobile Digital Evidence as They Relate to Case Types: A Survey and a Guide for Best Practices" is also a timely article. In this paper the researchers surveyed experts in the field, and using statistical analysis they rated the top type of evidence as they relate to case types. For example, the results showed that in drug cases, Short Message Service (SMS) is the most important type of evidence on average that an investigator should look for on a phone. The results from this work can be integrated in a mobile forensic triage tool.

The third paper is titled "A Study of Forensic Imaging in the Absence of Write-Blockers". This is both an interesting and timely topic – because one assumes that evidence may not be submitted to the court because change was made to it. The study concludes that no changes were made to the user files when a write-blocker was not used – which begs to question on whether or not evidence acquired without a write-blocker could be admitted in court.

Overall, the papers in this issue are multidisciplinary and timely. We hope that our readers enjoy them.

Sincerely,

Dr. Ibrahim Baggili PhD Editor-in-Chief

© 2014 ADFSL Page 5