



THE JOURNAL OF  
**DIGITAL FORENSICS,  
SECURITY AND LAW**

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

---

Volume 12 | Number 1


Article 2

---

3-31-2017

## Front Matter

Follow this and additional works at: <http://commons.erau.edu/jdfsl>

 Part of the [Computer Law Commons](#), and the [Information Security Commons](#)

---

### Recommended Citation

(2017) "Front Matter," *Journal of Digital Forensics, Security and Law*: Vol. 12 : No. 1 , Article 2.

Available at: <http://commons.erau.edu/jdfsl/vol12/iss1/2>

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](mailto:commons@erau.edu).

**EMBRY-RIDDLE**  
Aeronautical University,<sup>™</sup>  
SCHOLARLY COMMONS

(c)ADFSL



# JDFSL

The Journal of  
Digital Forensics,  
Security and Law



Volume 12, Number 1  
2017



# JDFSL

## The Journal of Digital Forensics, Security and Law

Volume 12, Number 1 (2017)

### Editorial Board

#### Editor-in-Chief

Glenn S. Dardick, PhD, CCE, CCFP  
ADFSL  
Florida, USA

#### Associate Editor-in-Chief

Diane Barrett, PhD, CISSP  
Bloomsburg University  
Pennsylvania, USA

#### Associate Editor-in-Chief

Gary C. Kessler, PhD, CCE, CCFP, CISSP  
Embry-Riddle Aeronautical Univ.  
Florida, USA

#### Associate Editor-in-Chief

Mark Scanlon, PhD  
University College Dublin  
Dublin, Ireland

Frank Adelstein, PhD  
Cayuga Networks  
New York, USA

David P. Biros, PhD  
Oklahoma State University  
Oklahoma, USA

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

David Dampier, PhD  
Mississippi State University  
Mississippi, USA

Virginia N. L. Franqueira, PhD  
University of Derby  
United Kingdom

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

Erin Kenneally, MFS, JD  
Elchemy, Inc.  
University of California San Diego  
California, USA

Andrew Marrington, PhD  
Zayed University  
UAE

Denise Pheils, PhD, CISSP, PMP  
Texas A&M  
Texas, USA

Vassil Roussev, PhD  
University of New Orleans  
Louisiana, USA

Craig Valli, DIT  
Edith Cowan University  
Western Australia, Australia

John W. Bagby, JD  
The Pennsylvania State University  
Pennsylvania, USA

Frank Breiterger  
University of New Haven  
Connecticut, USA

Fred Cohen, PhD, CEO  
Management Analytics  
California, USA

Barbara Endicott-Popovsky, PhD  
University of Washington  
Washington, USA

Simson Garfinkel, PhD  
NIST  
Maryland, USA

Joshua James, PhD  
Soonchunhyang University  
South Korea

Jigang Liu, PhD  
Metropolitan State University  
Minnesota, USA

Martin Oliver, PhD, CCFP  
University of Pretoria  
South Africa

John Riley, PhD  
Bloomsburg University  
Pennsylvania, USA

Neil Rowe, PhD  
U.S. Naval Postgraduate School  
California, USA

Eli Weintraub, PhD, CISA  
Afeka Tel Aviv Academic College of  
Engineering  
Israel

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

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

Philip Craiger, PhD, CISSP, CCFP  
Daytona State College  
Florida, USA

Nick V. Flor, PhD  
University of New Mexico  
New Mexico, USA

Pavel Gladyshev, PhD  
University College Dublin  
Ireland

Andy Jones, PhD  
University of South Wales  
UK

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

Richard Overill, PhD, FBCCS  
King's College London  
United Kingdom

Marcus K. Rogers, PhD, CISSP  
Purdue University  
Indiana, USA

Kathryn C. Seigfried-Spellar, PhD  
The University of Alabama  
Alabama, USA

Nigel Wilson  
The University of Adelaide  
South Australia, Australia

Copyright © 2017 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, 4350 Candlewood Lane, Ponce Inlet, FL 32127, or emailed to editor@jdfsl.org. ISSN 1558-7215

## 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
- 7) 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://commons.erau.edu/jdfsl/submission-guidelines.html>. 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://commons.erau.edu/jdfsl/submission-guidelines.html>.

Additional information regarding the format of submissions may be found on the *JDFSL* Web site at <http://commons.erau.edu/jdfsl/submission-guidelines.html>.

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

---

## Contents

<b>Call for Papers</b> .....	2
<b>Guide for Submission of Manuscripts</b> .....	2
<b>Special Issue Introduction</b> .....	5
<b>A Forensic Email Analysis Tool using Dynamic Visualization</b> .....	7
Johannes Stadlinger, Andreas Dewald	
<b>Find Me If You Can: Mobile GPS Mapping Applications Forensic Analysis &amp; SNAVP the Open Source, Modular, Extensible Parser</b> .....	15
Jason Moore, Ibrahim Baggili and Frank Breitingner	
<b>Anti-Forensic Trace Detection in Digital Forensic Triage Investigations</b> .....	31
Kyoung Jea Park, Jung-Min Park, Eun-jin Kim, Chang Geun Cheon and Joshua I. James	
<b>Compression of Virtual-Machine Memory in Dynamic Malware Analysis</b> .....	41
James E. Fowler	
<b>Forensic Analysis of Virtual Hard Drives</b> .....	47
Patrick Tobin, Nhien-An Le-Khac and M-Tahar Kechadi	
<b>Subscription Information</b> .....	59

