DESCRIPTION

*Digital Investigation* is now continued as *Forensic Science International: Digital Investigation*, advancing digital transformations in forensic science.

*FSI Digital Investigation* covers a broad array of subjects related to crime and security throughout the computerized world. The primary pillar of this publication is digital evidence and multimedia, with the core qualities of provenance, integrity and authenticity. This publication promotes advances in investigating cybercrimes, cyberattacks and traditional crimes involving digital evidence, using scientific practices in digital investigations, and reducing the use of technology for criminal purposes.

This widely referenced publication promotes innovations and advances in utilizing digital evidence and multimedia for legal purposes, including criminal justice, incident response, cybercrime analysis, cyber-risk management, civil and regulatory matters, and privacy protection. Relevant research areas include forensic science, computer science, data science, artificial intelligence, and smart technology. This journal is used by investigative agencies and forensic laboratories, computer security teams, practitioners, researchers, developers, and lawyers from industry, law enforcement, government, academia, and the military to share their knowledge and experiences, including current challenges and lessons learned in the following areas:

**Research and development:** Novel research and development in forensic science, computer science, data science, and artificial intelligence applied to digital evidence and multimedia. New methods to deal with challenges in digital investigations, including applied research into analysing digital evidence and multimedia, exploiting specific technologies, and into preparing for and responding to computer security incidents.

**Cyber-criminal investigation:** Develop new methods of online investigation and analysis of financially motivated cyber-crime such as banking Trojans, phishing, ransomware and other forms of cyber-fraud. In addition, researching future criminal activity involving peer-to-peer payments and crypto currencies.

**Cyber-risk management:** Improved ways of using digital evidence to address security breaches involving information systems, methods to find zero day attacks and to perform cyber threat intelligence. The techniques and findings of digital investigations are essential in drawing post-incident conclusions, which are vital feedback components of the security policy development process, and managing risk appetite.

**Case Notes:** Brief investigative case studies with practical examples of how digital evidence is being used in digital investigations, forensic analysis, and incident response. Case Notes can also describe current challenges that practitioners are facing in cybercrime and computer security, highlighting areas that require further research, development or legislation. The format for Case Notes is simple and short: case background, any technical or legal challenges, the digital evidence and multimedia involved, processes and/or tools used, and outcomes (e.g., solutions, barriers, need for R&D). Please check the following example for preferred Case Notes format.
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Types of Paper
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Scientific practices:
Novel approaches to strengthening the scientific foundation and rigor of digital investigations, and to increasing the reliability of and confidence in processes, analysis methods, results, and conclusions involving digital evidence.

Effective practices:
Studies that assess new practices in digital investigations and propose effective approaches to handling and processing digital evidence.

Survey papers:
Discussion of current methods and future needs relevant to digital investigations, including analysing digital evidence and multimedia from computers, smart technology, mobile phones, memory, malware, network traffic, as well as systems that support enterprises, telecommunications, and satellites. In addition, advanced approaches to analysing digital evidence and multimedia, including novel applications of artificial intelligence and data analytics.
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Tool reviews:
Evaluation and comparison of specialized software and hardware used to preserve, survey, examine, analyse or present digital evidence and multimedia, deepening our understanding of specific tools, and highlight any needed enhancements.

Future challenges:
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