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INFORMATION SCIENCE AND TECHNOLOGY FOUNDATION

An Editorial

Digital Forensics for New Age Security Systems

Digital forensics offers organizations more informed decisions and also helps in taking appropriate disciplinary actions. This field is also aids to criminal investigations and dedicated in uncovering vital evidence from digital devices like computers, smartphones, and storage media. With the Digital forensic, investigators are able in extracting data of communication including browsing habits, user activity, helping to build a stronger case or even exonerate the innocent. Because of criminals are now more tech-savvy, the system of digital forensics is dedicated and helps in justice system with complex digital footprints. As far as preventive role is concerned Digital forensic is dedicated the institutions for developing stronger cybersecurity systems and frameworks. As far as past attacks are concerned it is deals with system vulnerabilities. Further, digital forensic analysis dedicated organizations for healthy recovery of swiftly from cyberattacks by pinpointing the exact entry points and methods used by intruders. Furthermore, its relevance is increasing a number of places including civil disputes, terrorism, divorce cases and custody battles; and all these cases significance of digital communication records considered as impactful. The uses of compliance audits including data protection laws and industry standards are highly essential for a dedicated Digital Forensic development. Digital forensics is a multi-faceted discipline and not only deals with the computing or technology but also law and investigation which is dedicated in indispensable lens into the digital world. It is also ensuring accountability as well as safeguards from the misuse of the digital tools developing a smart and intelligent cybersecurity and modern-day justice systems. Though there are numerous challenges in Digital Forensics and Cyber Forensics are include Evidence recovery which is very challenging, anonymous browsing become more prevalent, malware and hacking methods are always evolving, International cybercrime has various legal aspects, Large volumes of digital data also challenging because of sophisticated analytical tools requirements, legitimate and authentic for use in court.

It is a fact that, data breaches, and digital fraud has turned digital forensics become a study field and even not only a technical discipline; and dedicated in identifying, preserving, analyzing, and presenting digital evidence. Combining computer science, cybersecurity, and law enforcement, digital forensics is morphing into more dynamic and interdisciplinary science for a safer world!

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