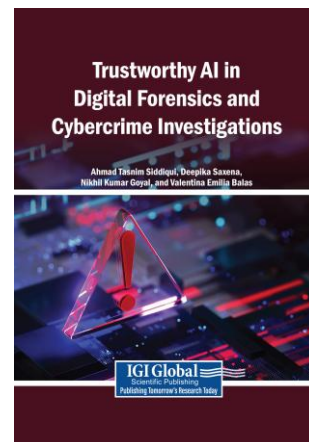


Trustworthy AI in Digital Forensics and Cybercrime Investigations:

Ahmad Tasnim Siddiqui, (Horizon University College, UAE)
 Deepika Saxena, (Poornima University, India)
 Nikhil Kumar Goyal, (Poornima University, Jaipur, India)
 Valentina Emilia Balas, (Aurel Vlaicu University of Arad, Romania)



Description:

The complexity of new cyber threats and digital crimes demands more advanced technologies capable of supporting investigations and evidence analysis. Trustworthy artificial intelligence (AI) has emerged as a powerful tool in digital forensics and cybercrime investigations by enabling faster data processing, pattern recognition, and automated threat detection. Unlike conventional systems, trustworthy AI emphasizes transparency, reliability, fairness, and accountability, ensuring AI-driven forensic methods produce accurate results. As law enforcement agencies and cybersecurity professionals rely more heavily on AI technologies, maintaining trust in these systems becomes essential to protect privacy, uphold ethical standards, and strengthen the integrity of digital investigations. Understanding the role of trustworthy AI in cybercrime investigations may further address modern security challenges in the digital age.

Trustworthy AI in Digital Forensics and Cybercrime Investigations explores how trustworthy AI technologies support digital forensics and cybercrime investigations through automated data analysis, threat detection, and evidence interpretation. It examines the ethical, legal, and technical challenges associated with ensuring AI systems are transparent, accurate, unbiased, and reliable. This book covers topics such as digital technology, criminology, and ethics and law, and is a useful resource for engineers, forensic scientists, academicians, researchers, and criminologists.

ISBN: 9798260022788 **Pages:** 375 **Copyright:** 2026 **Release Date:** 6/19/2026

Hardcover: \$235 **Softcover:** \$195 **E-Book:** \$225 **Hardcover + E-Book:** \$235

Topics Covered:

- Artificial Intelligence (AI)
- Criminal Law
- Criminology
- Cyber Threats & Attacks
- Cybercrime
- Digital Forensics
- Digital Technology
- Ethics & Law
- Government & Law
- Machine Learning
- Synthetic Media

Subject: Security and Forensics

Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Research

Research Suitable For: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

www.igi-global.com

Address: 701 East Chocolate Avenue, Hershey PA, 17033, USA