

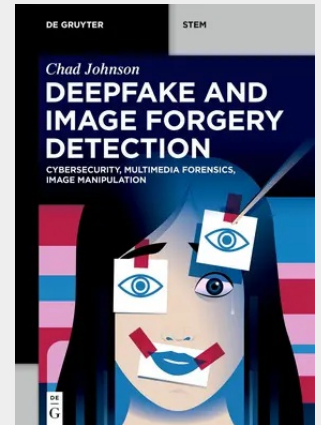
Deepfake and Image Forgery Detection

Cybersecurity, Multimedia Forensics, Image Manipulation

Deepfake and image forgery technologies have advanced at an alarming rate, creating significant challenges for digital forensics and cybersecurity professionals. Beyond technical concerns, the abuse of these technologies poses profound societal risks, including erosion of trust, reputational harm, and the exploitation of vulnerable populations, such as through image-based abuse and social engineering attacks.

This book provides a comprehensive exploration of tools, techniques, and workflows for authenticating digital imagery. Topics include AI-based feature extraction, forensic analysis of metadata, lighting, and textures, and detecting temporal inconsistencies in videos. Each chapter equips forensic analysts, IT professionals, and law enforcement personnel with actionable insights, case studies, and reliable methods for detecting manipulation while addressing ethical and legal considerations.

This book is an essential resource for practitioners and researchers seeking to mitigate the social and legal consequences of forgery abuse and ensure the integrity of digital evidence in an increasingly complex technological landscape.



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