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Titolo	Handbook of digital face manipulation and detection : from DeepFakes to morphing attacks // editors, Christian Rathgeb [et al.]
Pubbl/distr/stampa	Cham, : Springer Nature, 2022 Cham : , : Springer International Publishing AG, , 2022 ©2022
ISBN	3-030-87664-0
Descrizione fisica	1 online resource (481 pages) : illustrations (chiefly color)
Collana	Advances in computer vision and pattern recognition
Altri autori (Persone)	RathgebChristian TolosanaRuben Vera-RodriguezRuben BuschChristoph
Soggetti	Biometric identification Deepfakes Image processing - Digital techniques Morphing (Computer animation)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes index.
Nota di contenuto	Part I - Introduction: 1. Digital Face Manipulation: An Introduction2. Face Manipulation in Biometric Systems3. Face Manipulation in Media Forensics Part II - Face Manipulation Detection Methods: 4. DeepFakes Manipulation5. DeepFakes Detection6. Attacking Face Recognition Systems with DeepFakes
Sommario/riassunto	This open access book provides the first comprehensive collection of studies dealing with the hot topic of digital face manipulation such as DeepFakes, Face Morphing, or Reenactment. It combines the research fields of biometrics and media forensics including contributions from academia and industry. Appealing to a broad readership, introductory chapters provide a comprehensive overview of the topic, which address readers wishing to gain a brief overview of the state-of-the-art. Subsequent chapters, which delve deeper into various research challenges, are oriented towards advanced readers. Moreover, the book provides a good starting point for young researchers as well as a

reference guide pointing at further literature. Hence, the primary readership is academic institutions and industry currently involved in digital face manipulation and detection. The book could easily be used as a recommended text for courses in image processing, machine learning, media forensics, biometrics, and the general security area.

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