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Titolo	Handbook of Digital Face Manipulation and Detection : From DeepFakes to Morphing Attacks // edited by Christian Rathgeb, Ruben Tolosana, Ruben Vera-Rodriguez, Christoph Busch
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Altri autori (Persone)	RathgebChristian TolosanaRuben Vera-RodriguezRuben BuschChristoph
Disciplina	006.248
Soggetti	Biometric identification Image processing - Digital techniques Computer vision Data protection Image processing Biometrics Computer Imaging, Vision, Pattern Recognition and Graphics Data and Information Security Image Processing
Lingua di pubblicazione	Inglese
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Nota di contenuto	Part I - Introduction: 1. Digital Face Manipulation: An Introduction -- 2. Face Manipulation in Biometric Systems -- 3. Face Manipulation in Media Forensics -- Part II - Face Manipulation Detection Methods: 4. DeepFakes Manipulation -- 5. DeepFakes Detection -- 6. 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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