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The Fingerprint Frontier: The Evolution of Biometric Security

The Fingerprint Frontier: The Evolution of Biometric Security • Book • 2026 •

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Abstract

The Fingerprint Frontier: The Evolution of Biometric Security includes fifteen chapters that explore the fundamentals of fingerprint recognition through chapters meticulously crafted by subject experts in the field. The book begins with an introduction to technology and a detailed examination of fingerprint data, acquisition, and pre-processing thereof. The book then discusses the crucial aspects of fingerprint matching and verification, exploring the complexities of system integration and the security challenges that inevitably arise with these advancements. An exploration of privacy and ethical issues is crucial to the moral use of biometric data, paving the way for discussing fingerprinting in the context of national security. Chapter by chapter, the book addresses the global security challenges that fingerprinting seeks to address, as well as the best practices for its implementation. It is sincerely hoped that this book will be an invaluable tool for researchers, practitioners, and enthusiasts alike as they navigate the complex world of fingerprint biometric technology. © 2026 by Nova Science Publishers, Inc.

Indexed keywords

Engineering controlled terms

Data privacy; Ethical technology; National security; Palmprint recognition

Engineering uncontrolled terms

Biometric data; Biometrics security; Ethical issues; Fingerprint matching; Fingerprint Recognition; Fingerprint verification; Pre-processing; Privacy issue; Security challenges; System integration

Engineering main heading

Biometrics

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Abstract

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