



Automatic Fingerprint Recognition Systems

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An authoritative survey of intelligent fingerprint-recognition concepts, technology, and systems is given. Editors and contributors are the leading researchers and applied R&D developers of this personal identification (biometric security) topic and technology. Biometrics and pattern recognition researchers and professionals will find the book an indispensable resource for current knowledge and technology in the field.



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Editorial Review

From the Back Cover

Contrary to perhaps common belief, even after several decades of research, automatic fingerprint recognition is not a solved problem. New fingerprint sensing technologies, algorithmic advances, and abundant computing power continue to drive advances in this area and to open up new realms of possibility.

Automatic Fingerprint Recognition Systems thoroughly surveys and examines advances in fingerprint sensing devices and in algorithms for fingerprint image analysis and matching. After an opening chapter on the history of fingerprint recognition, the book moves into new technologies for inkless sensors, fingerprint image analysis techniques, including fingerprint video analysis, filtering and classification and other areas aimed at fully automatic operation. The book also addresses large-scale fingerprint identification system design, as well as standards.

Topics and Features:

- * Covers numerous areas related to modern automatic fingerprint recognition, not just its history or forensic analysis
- * Examines advances in fingerprint sensing and fingerprint image filtering and preprocessing
- * Describes fingerprint feature abstraction, as well as compression and decompression of fingerprint images
- * Develops ideas related to large-scale, large-database fingerprint matching
- * Assesses new areas such as security in fingerprint matching and the upcoming common criterion protection profile

This authoritative survey provides a unique reference for automatic fingerprint recognition concepts, technologies, and systems. Its editors and contributors are leading researchers and applied R&D developers of this technology. Biometrics and pattern recognition researchers, security professionals, and systems developers will find the work an indispensable resource for current knowledge and technology.

Users Review

From reader reviews:

Martha Wilson:

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