



Handbook of Fingerprint Recognition (Springer Professional Computing)

Davide Maltoni, Dario Maio, Anil K. Jain, Salil Prabhakar

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With their proven individuality and stability over time, fingerprints continue to be the most widely used physiological characteristic in systems that automatically recognize a person's identity. This handbook on automatic fingerprint recognition provides in-depth coverage of the most recent advances and practices. Readers will find comprehensive and authoritative coverage of all the major concepts, topics, and security methods associated with fingerprint recognition systems. Coverage includes: sensing, feature extraction and matching, synthetic fingerprint image generation, indexing, and multimodal systems.

Features & Benefits:

- * Covers the latest research in fingerprint-based recognition algorithms and techniques

- * Provides introductory material on all components and modules of a fingerprint recognition system
- * Examines design of secure fingerprint systems

- * Contains helpful chapter overviews and summaries and consistent notation, for ease of use and accessibility

- * Includes a DVD containing both the FVC2002 and FVC2000 fingerprint databases (full versions) and a demo version of SFinGe software (for synthetic fingerprint image generation)

- * Integrates numerous supporting graphs, tables, charts, and performance data

- * Supplies an extensive annotated bibliography of citations and literature sources.

This comprehensive and authoritative reference, written by leading international researchers, covers all critical aspects of fingerprint security systems and technology. It is an absolutely essential resource for all

biometric security professionals, researchers, practitioners, developers, and systems administrators.

About the Authors

Davide Maltoni is associate professor in the Dept. of Electronics, Informatics and Systems (DEIS) at the University of Bologna, where he also co-directs the Biometrics Systems Laboratory (BioLab).

Dario Maio is professor in the University of Bologna's DEIS, chair of Cesena campus and director of the BioLab.

Anil K. Jain is university-distinguished professor in the department of computer science and engineering at Michigan State University. He is a fellow of the IEEE and IAPR and holds six patents on algorithms for fingerprint recognition.

Salil Prabhakar leads the algorithms research group at DigitalPersona Inc., where he works on fingerprint-based biometric solutions.

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