

TR 17:2004

### **TECHNICAL REFERENCE**

# **Fingerprint image quality metrics**





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### Foreword

This Technical Reference was prepared by the Technical Committee (TC) on Biometric under the purview of the Information Technology Standards Committee. The TC comprises volunteers representing universities, research institutions and the industry. As individuals, the volunteers are also biometric users, and as such, they brought the essential user perspective into the analysis as well.

This Technical Reference provides the recommended best practices on measuring and assigning quality values of fingerprint images. The fingerprint quality values are critical for the operation of fingerprint recognition system. The importance of the quality values can be seen by the fact that some of the current standardisation works at the ISO/IEC JTC1/SC37 will require such values. The works include "Common biometric exchange formats framework – Part 1 : Data element specification" [1], "Biometric application programming interface – Part 1 : BioAPI specification" [2], "Biometric data interchange formats: Part 4 : Finger image data" [3], "Biometric data interchange formats – Part 3 : Finger pattern spectral data" [4] and "Biometric data interchange formats – Part 2 : Finger minutiae data" [5].

In preparing this Technical Reference, reference was made to the documents in Annex A. Acknowledgement is made for the use of information from the documents.

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