ISO/IEC 19794-1:2011-07 (E)

Information technology - Biometric data interchange formats - Part 1: Framework

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Abbreviated terms 8

5 General biometric system 8
5.1 Conceptual diagram of general biometric system 8
5.2 Conceptual components of a general biometric system 9
5.3 Functions of general biometric system 11

6 Usage context of biometric data interchange formats 13

7 General aspects of the usage of biometric data for interchange 13
7.1 Introduction 13
7.2 Natural variability 13
7.3 Aging and usage duration 13
7.4 Enrolment conditions 13
7.5 Feature extraction algorithms 13
7.6 Feature comparison algorithms 13

8 Processing level of data formats for interchange 14
8.2 Captured biometric sample 14
8.3 Image data 14
8.4 Behavioural data 15
8.5 Feature data 15
8.6 Naming conventions for biometric data formats 15
8.7 Recommendations for standardizing biometric data formats 15

9 Multibiometrics 16

10 Capture device requirements 16

11 Format owner and format types 16
11.1 Relationship to CBEFF 16
11.2 BDB format owner 17
11.3 BDB format types 17

12 Coding scheme for format types 18
12.1 Structure of data records 18
12.2 Common elements for the general header 18
12.3 Common elements for the representation headers 19

Annex A (informative) Examples of comparison scenarios 25

Bibliography 27