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Information technology — Cross-jurisdictional and societal aspects of implementation of biometric technologies — Biometrics and elderly people

Technologies de l'information — Aspects sociétaux et transjuridictionnels de la mise en œuvre des technologies biométriques — Biométrie et personnes âgées

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Contents

Page

Foreword ... **iv**
Introduction ... **v**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Abbreviated terms ... **1**
5 Fundamental concepts ... **1**
6 Elderly people in terms of age ... **2**
7 Critical points associated to the use of specific biometric modalities by elderly people ... **2**
7.1 General considerations ... 2
7.2 Fingerprint recognition ... 2
7.2.1 Typical characteristics of an elderly person which can have consequences on fingerprint recognition: skin conditions ... 2
7.2.2 Typical pathologies experienced by elderly people which can have consequences on fingerprint recognition ... 3
7.2.3 Data concerning the use of fingerprint recognition by elderly people ... 4
7.3 Face recognition ... 4
7.3.1 Typical characteristics of elderly people which can have consequences on face recognition ... 4
7.3.2 Typical pathologies experienced by elderly people which can have consequences on fingerprint recognition: neuromuscular problems ... 4
7.3.3 Data concerning the use of face recognition by elderly people ... 4
7.4 Iris recognition ... 5
7.4.1 Typical characteristics or pathologies of an elderly person which can have consequences on iris recognition ... 5
7.4.2 Data concerning the use of iris recognition by elderly people ... 6
8 Critical points which affect multiple modalities ... **6**
9 Practical issues involved in the implementation of biometric systems used by elderly people ... **6**
9.1 Cognitive challenges ... 6
9.2 Acceptance of biometrics in the elderly people population ... 7
10 Conclusions ... **7**
Bibliography ... **8**

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 37, *Biometrics*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

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Introduction

This document provides support for the further development of ISO/IEC International Standards on biometrics in the context of cross-jurisdictional and societal applications of biometrics, in relation to usage with elderly persons.

The contents of this document are descriptive and do not provide recommended practices and guidelines.

Examples of the benefits to be gained using this document are:

— operational support in using biometrics applied to the context of elderly people;

— enhanced acceptance by subjects of systems (elderly people and relatives) using biometric technology;

— improved public perception and understanding of these systems;

— smoother introduction and operation of these systems.

The primary stakeholders are identified as:

— users – those who use the results of the biometric data;

— developers - those who develop technical standards;

— subjects – those who provide the biometric sample;

— writers of system specifications, system architects and IT designers;

— public policy makers - those who make policies affecting the use of biometrics.

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Information technology — Cross-jurisdictional and societal aspects of implementation of biometric technologies — Biometrics and elderly people

1 Scope

This document builds upon the information provided in ISO/IEC TR 24714-1, ISO/IEC TR 29194 and ISO/IEC 29138-1 in order to highlight in a more detailed way the medical, physical and cognitive aspects that are specific for the use of biometrics by elderly persons.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 2382-37, *Information technology — Vocabulary — Part 37: Biometrics*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 2382-37 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
elderly person
every human being over the age of 65 years

Note 1 to entry: For an explanation of why 65 years has been chosen as the age defining an elderly person, see Clause 6.

4 Abbreviated terms

DG	Directorates-General of the European Commission
EU	European Union
JRC	Joint Research Centre of the European Commission
UN	United Nations

5 Fundamental concepts

ISO/IEC TR 29194:2015, Clause 2 states:

"*There is a basic principle of designing biometric systems in a way that they can be used effectively and with minimum discomfort by the whole target population. There is also the need of reaching a common*

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