ISO/IEC 30107-1:2023-08 (E)

Information technology - Biometric presentation attack detection - Part 1: Framework

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Characterization of presentation attacks 3
4.1 General 3
4.2 Presentation attack instruments 3

5 Framework for presentation attack detection methods 4
5.1 Types of presentation attack detection 4
5.2 The role of challenge-response 5
5.2.1 General 5
5.2.2 Challenge-response related to liveness detection 6
5.2.3 Liveness detection not related to challenge-response 6
5.2.4 Challenge-response not related to biometrics 6
5.3 Presentation attack detection process 6
5.4 Presentation attack detection within biometric system architecture 7
5.4.1 Overview in terms of the generalized biometric framework 7
5.4.2 PAD processing considerations relative to the other biometric subsystems 8
5.4.3 PAD location implications regarding data interchange 9

6 Obstacles to biometric impostor presentation attacks in a biometric system 9

Bibliography 11